

Appendix A

-306-

TAAGCATGAATTACGCCCTAGACGCATTATGGTGGAACTTACCAGCCAACCCGTCGCCG
ACCTTGCCCTCGCTGCTGACTGCGCCGCCCTTTGTGGCAAAGCGGCTGCGAATTGAGCGTGC
GAGAATACTGGGAGAACACGGTTTCCGTTACCTTTTGGCATTGGATGCCGATCCACGC
GGCTGACGGATTACCTCGCCCAACGCGCCCGCTTCGGCCACCGTCTCGGCATTATGCCC
AAGAGCTGCTGGCTTTTTGGTTTGCCAATGCACCGCACGCCGAAGTCTCGCGCACAAAC
TCACGGTTTCCGGTTTCGGACGGCAATACGCAAGCGCGCGGATTTGTGGCAAGGCTTA
ACGGCAAACCTTACCATATCGAGCTGACCTGCAAAATATTACGGCGGCACACGGACAGTC
CCGAAGGGATGCGCGGATTTCGACCCCAAGACACGCTGTTGGGAAAAGCCGCCAACTGA
CCGCCCAACTCGGTCTGCCGCACACTTCAGACGGCATCCGGACCTTGCGGCAGCACGGTT
TGCGCTTAACGTAAAACCCGTTTCCATCGTGCGCGGCATCGGATTTTTTCCACACGGTT
TCCATGCTTTTGAGCCACCGCTTAATCCATACGGTTGGCGCGGCATCTATATTCAAGATT
GGGCGGAATACGGGTTTAAACGCCAAGAAGTCCGCTACCATCTGCTCGACCGTATGGCCT
ACCTCGCGCCTGCGCGTGTCCGCCGAAACCGAAACATTGAACGCAACCGAAATCCGCCGTA
TCGACCAAGGCTTGATTGCGCGTTTGGAAATGTCCGCCGACCGCTTTTGGCACGAAATCG
AACGCATTATGAAGGCCGCTGTAACCCCTTCCCAACATTAACGCGTATATCTATTGAGA
GGCTTAGTGATGAAATCTCATTTCCTATACAATTTATGAAAGAGTCATCCGAGTTAATA
AGGATATTGGATATGATAATATAACAACAACATGCCAACTAATATTATGACGATCCAAA
CAAATAAGTATGGTAATTTAATAACTACGACCCAGGTAGAATACAATGAAGAATAATGT
TAAAAATGGACAATAAGAAGTCAAGCAATCATAGATAAATTAATAATATTTTAAT
TAAAAATACTTTCTTCTTCAGTATCTGAAAAAGAGTTTTCAGCTTCAAGTGCTTATTG
TTTGTCTATGCTCCCTGAAGAAGAAGATATATGAAATATTGGTTAATGGGAATATTAT
TATTGATTTAGAATTTAATAAACATACAATGAACAGTTGTTATTAATGTTACTGATGT
TGATGAATACTTGAAACTTTAACCAATGAGAGTGGTAGAGTATTTTTTACATTAGCAAA
AGAAATCGGCAACAGAAACCAATTTAACAAGAGCGAAATACAAATTAATAACTCAATGG
AGTGATGGCATATTTAGGATAGATATACTGAACGAAGAAAATAAATTTGTTTTTTTCCCT
CATGTTTTAGGGAGTGATTACAAAATGAAATCGCTGATGTGATTATATCGGATGCTGTTT
AAGCGACCTGAAAATAGAAGCTTTTTCAGGCTGCCCTTTGTAGTTAACGGAGAAATTTAGA
CAAAATCCCGATTGCGCACTTTTAAACACATCTTTCTTATTGCGGATAGAATACTAAGTAAT
GATAAAGATGCTATTGTTATTTTAAAGACGTTAGATTGATTATGAATAACCCACAGTAAG
AGAACCATTACATTATGAACGCCGCACAACTCGACCATACCGCCAAAGTTTGTGGCTGAA
ATGCTGACTTTTCAAACAGCTGCGGATGCCGTCTCTCCGCTATTTCGCGCAACACAAA
AAGCTCGGCAGTCAAGATCGCCACGAAATCGCCGAAACCGCCTTTGCCGCGCTGCCGCAC
TATCAAAAATCAGTACGCCCTACGCCCTCCGCACGCGCAGCCGCGCAAGCCGCTCTC
GCCGCACTGGTTCTCGGCAGAACCAACATCAGCCAAATCAAAGACCTGCTTGATGAA
GAAGAAACAGCTTCTCCGCAATTTGAAAGCCCGTAAACCCGAGTTTTCAGACAGCCTG
AATACCGCCGCGAAGTTGCCGCAATGGCTGGTGGAACTGAAACAGCATTTGGCGCGAA
GAAGAAATCCTCGCTTTCCGGCCGAGCATCAACAGCCTGCCCGCTCGACATCCGCGTC
AACACTTTGAAAGGCAACAGCTGCGGATGCTGCTGCTGTTGCAAGCCGAAAGTCCGAT
GCAGAGGCAACGCCCTTATTCGCCCTTGGGGCATCCGCTGAAAAACAAATCGCGCTTAAC
AAACACGAAGCTTTTTAGACGGCACACTGGAAGTCCAAGACGAAGGCAGCCAGCTGCTT
GCCTTATTGGTGGCGCAAGAACTGAGGCGAAATCATGTGCTGATTCTGTGCGCGTGCCGCG
GGTAAACCTTTGGCTGTGGTGGCCTGCAATGGCGAACAAGGCGAGATCTACGCCTTCGAT
ATCGCCGAAAAACGCCCTTGCCAACTCAAACCGCGTATGACCCGCGCCGCGACTGACCAAT
ATCCACCCCGAAGCAGTCCGCGAGCAACACGATGCCCGTATCGCCGACTGGCAGGCAAA
GCCGACCGTGTGTTGGTGGACGCGCCCTGCTCGGTTTGGGCACTTACGCCGCAATCC
GACCTCAAATACCGCAATCCGCCGAACCGTCCGCAACCTTTTGAACAGCAACACAGC
ATCCTCGATGCCGCTTCAAACCTGGTAAACCGCAAGGACGTTTGGTGTACGCCACTTGC
AGCATCTGCCGCAAGAAAACGAGCTGCAAGTCAAGCTTCTGTCGGAACATCCCGAA
TTTGAACCCGCTCAACTGCCCGCAACTGCTTGCCGTTTGAATAATCGATTGGATACCGGC
AAATACCTGCGCTCAACTCCGCCGACACCAAAACCGACGGCTTCTCGCCGCGCTATTG
CAACGCAATAAACCCGTTTGAACAAATGCCGCTGTAACCTTTTCAAAGCGTTCAGAC
GGCATTTTCATCAATTATATAGTGGATTAACAAAATCAGTACGGCGTGTGCTCGCCTTAGCT
CAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTAAGTGTG
ACTGTCTGCGGCTTCTGTCGCTTGTCTGATTTTTTGTAAATCCACTATATTTTGGGAAT
CTGTTTTTACCCCAATATATAAAGCACCATATTAAGGCGGAGTGTCTTCCCACTTTGACC
CGAACCCGGAAGAACACCGCCCAAGCAATCCTGATGCTGCCCGACAGCCAACCATTA
AGGAATCTCTAATGAATTTGCTTTATCCGTCATATGTTGACCTCGCCTCTTTCTCTGC
CCGTCGCCGCTGCCGAGCCGCTCTTTACTTGAAGGACGGCGCGGCAACAGCTATT
CGGATGTACCGAAACAGCTTCATCCCGACCAAGCCAAATCTTAACCTGCGGACGCGCC
AAACCAACCGCGGCTCAAACCCGCCCAAGCCGACGCGAGGAAGCGCACAGACGGCGCGG
CACAGGAAACAATCCGACACTGCCGAGAAAACCGGCAGCTTGAGGAAGAAAAGAAA
GAATTCGCCGAACCGGACGCGAGAACAAAGAAAGAAAACCTGCCGATTTCAAAATGAAC
TGAAGGCGGTGGGAAATCAAATGCAAAAACAAGGATGATTGATTGCGAAATACAATA
ACGCGGTAAACAAATCTGCCGTTAATCGGCTCTAGCGCAACCCGATGCCGCTGTAAGC
GGCAGGGGTTTTGTACTTTCGCCAGTAGGTTTTGACGTTGACGAACTCGTACAGCCGA
ATTGCGACAATTCGCGCCCGTAACCGGAATCTTTGACTCCGCCGAAAGGCAGGCGCAAT
CGCTGCTGGTATGGCGGTTGATAAACACCGATCCCGCTGATTTTTTTCGCAACCGCC
AAGCGCGTTCCGTTATCGGCGGTATAAATGCAGGCACCGAGCCGAACGGGGAATCATTGG
CAAGGCGGATGGCATGTTCTTTCGTTTTCGCGCGCAAAATCAGGGCGCGCCGCCGAATA
CTTCTTCTCTCCAGACGCGGCGAGGAGGATTTACCTGTCTAAAACCGTCGCGGGATAAA
ACCAGCTCGCCCTTGTGGGATTTTTCCGCCGCTCAGGCATACCGCGCGCTTTGAAACGG
CATCTTCAACCTGCCCGTGAACCCCTGTCCGCAATCTTCGCGGTGCAGCGGTGCAAGCG
TAGTATCGGGATGTTTGGGGTCGCCATTTTCAATTTAGCGCATTCGGCAAGAAACAGCG
TGATAAACAGTACGGCTCGGGCTTCGGTTACGATGATGCGCTTGCGGCGGTACACGATT
GCCCCGATCGCGGAACGGGAATAACAGGCTTCTGCGCGGCACGCTCCAATCAGCAT

Appendix A

-307-

CGGGCATCACGATAAAGCGTTGCTACCGCCGAGCTCCAACACGGTTTTCTTAAGGTTG
CGCCCGGTGTGCGCAAGGATGCGCCCGTATGCGTTGAACCGGTAAACGCCATTGCAT
CGGTATCTTCAACCGCCTTGAGCGTGCCCGCCTCATCCAGCCACACGCCTGCCAGAGGAA
TGCCGTCTGAAGCCAAATCGAACAGTGCCTGACTGACGCGTGCCACGCTGGGCGCGGGT
TGACGGCGCACGCGTTGCCCGGCACATAGCGGGAACGGCGAAACGCAATACCTGCCAGA
CGGGATAGTTCCAAGGCATGACGGCAAAACACCACGCCCAAAGGCTCGAAGCGCACCTGAC
TCAAACCTCGCCTGCGTCGCGATGGTTTTGTGGGCAAGCAGTTTCGGGGCAAGCGGGCGT
AATAGCGTATCAGTTTCGATAGACTTGCCGATTTCCGACGCGCATTCGTGCAAGCAGCGTC
CGACTTCCTCACACACCATTTCCGCAAAACGCTCTTTCTCGCCTCCAACCGGTTCGGCAA
ATTTTTGCAGGCGCGCGGCACGTTTCGGTTACGCCAGTTGCGCGAACGCCCGCGCGCA
TTTTCAAATCCGCCAGCCCGCTTCAAACCTCCGCATAATCTTGAGCGGGCGCGCGTAA
GCGTTTTCCGCCGTAAATACATTGACACTGTGAAACATCGAATCAACCTGCCAGTTGCGGG
AATATCGTTTTAGTCCCGACACAATAATCTCCACCGATACCGCCGCCAGCATCATAACC
ATAATCGGGTTTTAAATATCGACCCCGTCGCGCCAGCAGGCGGCTGACCTTCCCGGCA
ACGATTAAATGGCATAACAAATCGCACTGACCACCAAACCGGCCGCGATAATCAACGCG
ATGTCGCGCTATGTTTTAGCCGCGGAAGCGTAAATAATACGGTTCGAAATACCGCCCGG
CCGATGGTGATCGGTATGGCGATGGGACGACGGCAATCGCTCCGGCATTCGGGCGGGG
CGCGCTGCCCCGTTTTCCGGCTGCGCGCCGAGATTCTGCTTGGCGGGATTGTCGTTGCCG
TTCATCATCGAATGGCGATCAGCAGCACAAATCCCGCGCCGACCTGAAACGAACCG
ACGCTGATGCCCCAAACCTTCAGCAGCGTACCGCGATCAGCGCAAATACCGCAATCACG
GCAACACAGCGCAACGGCGCCTCCGCGCGACCTTCCTGCGCTCCTTCGTGCTGTGCCCG
TTGGTCAGGTCAAGGTAAGCGACAACGCGCTAAACGGATTAATCAGCACCACAAAAGCC
ACAATCAGCTTGCCGATTTCCATGCCCAATCCCATTTATTTCCCGCTCCTTCAAACCCGTG
CGGACGGCATCCGATGCTGCAAAATGCGCGCAACGGATTTTTCCGTTATAATTAATAA
TTCAAGCAATACGCCCTTACATACCCGAACGACGGTATCTTACCATCAGACAGGATGC
TTTTCATGGCACTGACACTTGCCGACGTAGACAAAATCGCCGACTCTCCGACTGCACC
TGACTGCGGAAGAAAAAGAAAAATCGCTTCAAGAATTAACGACATTTTCACTATGGTCG
AACAGATGCAAAACCTTAACACAGACGGCATCGAACCGATGGCGCACCCGACGAGGCCG
CCCTGCGCCTGCGCGAAGACGAAGTAACCGAAACCGACCGCGCCGCGAATATCAGGCGG
GTGCTCGGGAAGTACGCAACCGCTGTACATCGTACCGCAAGTTATCGAAGAATAATCCG
AATATGCTTCAGACGGCATCAGCAATACCGCCGAAGCCCTTAAGGATGGAAGATTAT
GACCAATACACATTGAAACAGGCAAGCGTCTGTGTCAGTCCAACAGATTTCCGCGCT
CGAACTGGCAAGCGCATACCTTGCCGCCATCGCCGAAAAAATCCCGCCCTCAACGGCTA
TATCACCATCGACCAAGATAAAACCCCTTGCAAGACCCGTGCGCGCGACGAACGTATCGC
GCAGGCAACCGCTCCGCGCTTACCGCGGTACCGCTCGCCTACAAGGATATTTTCTGCCA
AACCGGCTGGCGCAGCGCTGCGCTTCCAAAATGCTCGACAACCTCATCTCCCCCTACAC
CGCCACCGCTCGTCAAAACCTGCTCGACGAAGGTATGGTAACGCTCGGCGCGACCAATAT
GGATGAGTTGCGTATGGGTTCGACCAATGAAACTCATTCTACGGTGACGCAAAAACCC
ATGGAATCTTGAGCACGTCCCGCGGTTTCGTCAGGCGGTTCCGCGCGCTCGTTGCCG
GCGCCTCGCCCCTGCGCGCTCGGTTCCGACACCGCGGCTCTATCCGCCAACCCGCATC
GCACTGCGGCATTACCGGCATCAAACCCACATACGGCACGGTTTCCCGCTTCGGTATGGT
CGCCTACGCTCCAGCTTCGATCAAAACCGGCCGATGGCGCAAACTGCGGAAGACTGCGC
GATTCGTGTTAAACGCGATGGCAGGTTTCGACCCAAAGACTCCACAGCCTCGAGCGCGA
AAAAGAAGACTACCCCGGATTTGAACCAACCGCTCAAAGGTTTGAAATCGGCCGTGCC
CAAGAATATTTTCGGCGAAGCAACAGCGCCGATGTTCTGACGGCATTGCAAAACACCAT
TGATTGCTGAAAGCCCAAGGCGCGGAATTGATTGAAGTTTCCCTGCCGCAAAACCAAGCT
GTCATCCCCCGCTACTACGTCTCGCCTCCGCGAAGCGCAGCACAACCTTTCACGTTA
CGACGGCGTACGTTACGGACCGTGCCGCCAATTCGCGGATTTGGAAGAAATGTACGG
CAAAACCCGCGCGCAAGGTTTCGGCAGCGAAGTCAAACGCGCATCATGATCGGCACCTA
TGTACTGTCGCGACGGCTACTACGATGCCTACTATCTCAAAGCCCAAAACCTGCGCGCCT
CGTTGCCGATGATTTTCAGACGGCATTTGCACGGTGCGACCTCATCTCGCGCGACCGC
ACCCATGTCAGCGCCCAAAATCGGAGCGGATGCTTCGCGCGTTGAAACCTACTTGAGCGA
TATCTACACCATCGCGTCAACCTCGCCGACTGCCCGCATTGACCTGCCCGCAGGCTT
CAGCGCGCGGACTGCCCGTTCGGCGTTAGCTTGTGCGCAACTACTTCGCGGAAGCCAA
AATCCTCGGTGCGCGCATCAAACTCAACTCAACAGCGATTGGCACGGCAAAACGACCCGA
ATGAAGCAGAACCGCACCTTACCTTCCCGGATTTTCGACCGGTTTACAGCTATGCGCCT
TTATATCGGCTGCAACATTTAAATACACATTGCGAAAATTTTTCGGAAAAAAGAAAT
TACGCTTCGAGCAGTTTGTCAACGCATCCCCTATCCGTCAGGGGCTGTTCTCTCACTGC
CCGCAAAATGCCATCCGCTGCTGCGCGAATTTGTTGACAGGCGTTTAACTGCAACGCG
CGTTTAGATGCGATGACGGCAGATTTTCTCATGGCGGAAAACTGTTGCGCACAGACATC
CTGCACCAATGGAAGACTACCGCTTCCATTTGGTCTTGGCGCACCTTTCAGACGGCATC
AGCTTGTGGCTCAACCGCAACGACAACCTGCGTCAAGAAGCGCGTGGTCTTTATCTTTG
CGCGACGAAGCAGGCAACCGGCTGTATATGGCGACTTTCGCTTTGTCGGCACACACCTG
CTGACAGCCTCCGTACAAGGGCGCGGGTGAAGAAGCCAAAGACACCGTCCGCCGCATA
ACCAACAACCTCCAGCGCTGCGTCCCCAACAACCTGATGGTAACCGCCCTGCAATATTT
GCCGCGTACTCGGCTTGACAGCGCGCAATGGGCTTGCACAAAAACATCAGGTCAAACG
CGCTGGAAACTTAAAAAGCGCGTCAAATGAATTACGACGATTTTGGCAGGAATACGGC
GCAAGTTTGAACGGGACGGCTACTGGCATCTCCCCAAACCCCGCCGCAAGACCTT
GCCGATCAGAAAGCAAAAGCGTTTCGATGTACCGCAAGCGTTATGAAATGCTGGACAAT
ATGGTTGCAGAGATGAAGACAGTCTGAAAAAGAGCAGCGGCGCATTCAGACGGCATC
CAAACGGAAAAACCGCCCGCGGACAGCTGACGCGAAGACTATCGAATTGATATTTTA
GAGAAAGAAGCTTATGACCTGGGAAACCGTAATCGGCTTGAAATCCACGTCCAATTG
AACACCAATCCAAATCTTCAGCGGCGCATCGACCGCATTCGGCGCAGAACCCACGCG
CACGCCAGCGTAGTGAATGCGCGCTGCCGGCGTTTTGCTGTGATGAACCGTGAAGTC
GTTGAAAAAGCCATCAAATGGGTTTGGCTTTAGATGCGAAAATCAATCAGAAAAACGTG

Appendix A

-308-

TTTCGACCGCAAAAACTACTTCTATCCCGACTTACCAAAAGGTTATCAAATCAGCCAGTTG
GACTTACCGATTGTCGAACACGGCAAATTGGAAATCGTAGTCGGCGACGATGTGAAACC
ATCAACGTAACCCGTGCGCACATGGAAGAAGACGCGAGGCAAGTCCGTGCATGAAGGCTTG
AACGGCGCAACCCGTATCGACCTGAACCGCGCGCGCACGCGCTGTGGAAGTGGTATCC
GAACCTGAAATGCGTTCCGCCGCCGAAGCGTTGCCACGCCAAGCCCTTGACAGCTTG
GTAACCTGGCTGGACATTGCGCAGCGCAATATGGCGGAAGGCTCGTTCCGCGTCGATGCC
AACGTATCCGTGCGCCCGAAAGGTCAAGAAGAGTTGCGCACGCGCGCGAGATTAAAAAC
CTCAATTCTTCCGTTTCTTGGAGCAGGCGATTAATTACGAAGCGGAAGCGCAAATCGAG
ATTTTGGAGACGGCGGCAAGTACAGCAGGCAACCATGCTGTTTATCCCGAAAGGC
GAAACCCGCGTAATGCGCTGAAAGAAGATGCGCACGACTACCGCTACTTCCCGACCCCT
GATTTGCTGCGCGTTATCATTTTCAGACGCGCCAAATGCAAAAAGCCAAAGCAGAAATGCC
GAGCTGCCGAAAGAAATGGCAGCGCGTTTCTGCGCGGATTACGGCGTGTCCGAATACGAC
GCGCGCTGCTGACCGCAAGCCGTGCGCAGGCTGCCATTTTGAAGAAGCGCCAAAGAA
AGCGGACAAGGCAAGTACTGCTGCAACTGGATGAACGGCGAACTTCCGCGCGCGTGAAC
AAAGAAGGCATGGAATGCGGACAGCCGATTACGCGCCGCGCTCGCGCGCTGGTT
GGCAAAATCGCGCAGCGCACATTAAAGCAGCAAGTTAGCGAAAAAGCCCTTTGAAGCCATG
TGGCGAAGAACCGGAAGCCACATTGCCGAATCATGAAAAACAGGCTTTGCAACAGATG
ACCGACACCGCGGAGATTGAAGCCATGGTGGACGAAGTGTGGCAAAACAGCCAAAGCC
GTGGAACAGTTTAAATCCGGCAACGAAAAAGCCCTGAATGCGATTGTGGGACAAGTGATG
AAGGCCAGCAAGGCAAGCCAAACCCGCGCAGGTTCAAGAGCTGATTAAAGCCAAACTG
GCTTAATCCGTTATCACACAGGTGCTCTGAAAGCAAAGTTCCAACGAAGGTAAAAACAGGA
AATAAGCTTTACAGACGCGCTTTTATAGTGGATTAAATTTAAACAGTACGCGCTTGCCCTC
GCCCTGGCGTACTATTTGACTGTCTGCGGCTTCGTCGCGCTTGTCTGATTAAATTTAA
TCCACTATAACTTAACTGCTTACTCAAAACCATACCAAGACATGAACCAACCGTTACCTGCC
CGACCAAAACACCTTTGCCGCCAACGACGCGCAACCCGTTTGAACGCTGCCGCGCGTCA
AAACCTCAACCTGCCCTTCTCTGCAAAAGCGGTGTCTGCGGCAATGCAAGCCGAAC
GGTCAGCGGCGATATTCAAATGGGCGGACACTCGGAACAGGCTTTATCCGAAGCAGAAAA
AGCGCAAGGCAAGATTTTGATGTGCTGCACCACTGCGCAAGCGATATCAACATCAACAT
CCCCGGGTACAAAGCCGATGCCCTACCCGTCCGCAACCTGCCGCGCAGCATCGAAAGTAT
TATTTTCAACACGATGTGCGCTCTCTGAAACTTGCCCTGCCCAAGCCCGCGCTTTGC
CTTCTAGCGCGCGGAAATCATTTGATTACTGCTGCGGGCAACGTACGCGCAGCTACTC
CATCGCCAATTTACCCGACCAAGAAGGCATTTTGGAACTGCACATCCGAGGCACGAAAA
CGGTGTCTGCTCGGAAATGATTTTTCGGCAGCGAACCCTCAAGAAAAAGGCATCGT
CCGCGTTAAAGGCCGCTCGGTTTACCTTGCAAGAACAGCGGCAACCCGTCAT
CCTGCTGGCAACCGGCACAGGCTACGCCCCCATCCGAGCATCTGCTCGACCTTATCCG
CCAAGGCAGCAACCGCGCGCTCCATTTCTACTGGGCGCGCGTCTATCAGGATGATTGTGA
TGCCCTCGAAGAAGCACAAGGTTGGCATGCCGTCTGAAAAACGCTGCTTCAACCCCGT
ATTGTCGCCCGCCGGAGAGGCTGCGAGGGAAGAAATGGTCACGTACAAGACATCGCGGC
ACAAGACCACCCGACCTGTGCGAATACGAAGTATTTGCCGTGCGGTTCTCCGCGCATGAC
CGAACAACCAAGAAATCTGTTTGTGCAACAGCATAGCTGCCGGAACCTGTTTTTCTC
CGACGATTCTGCGCCGACCACTTCTCGCCAGCCTTCAACACGCGCTTCCACGCGCACCT
TTCAGAACACAAAAAATTTCCCGTCCGTTTTCCTGTTCAAGGCGACAGCCGCTCGCGTA
TCCAGCCACCATCCAGCAACCGTATTGGATGCGGTCGTGACGCTGCTCGGTCTGCCCT
GCCGAACCTCAAGCAATTCGGGAATCACAATATAGCCGCCCAATGCGGCGACGCGGCA
CATGACAGGATGTTTGTAGTCAAACCGCGCGCGCTTTGCCACCAATACCGCTTGTTCG
GAATAACCTCGCTCTGCGCACTTGCCACGCAACCAACGCGCTCTGATACGGGCGACTCT
CAAAATATTGCTCGGACAACTTCTCGCCAGCCTTCAACACGCGCTTCCACGCGCACCT
GACGCTCCAGCTCCGGCCAAAAAACGTCATCGCCGCAATGGATGAGCATCCAGCGAAC
GCCCCCTTGCGGCTGTGATAATTCGTAAAGAAAAACAAACCTTCAGAATTAACCTTCTCA
GCAGCACCATACGGCTGTTGGGCTGCGGCTCGTCAACCGCGCGCATTTGACCGCG
TCGGCTCGTTGACCTGTGCGCGTACCGCTCGTCCAACCAACCGCTCGAATGCTCGATCG
GATTATCGGCGCAATCGGCTTCCGACAATTCCCGTTGCTGTAATCTTCCGAATATGTG
GCAATCCATTTACTGCTCTCTTATCATTTGAAAGATTCTACTCCGCGACGCAACCGA
TTTCAACCGTCGCAAACTTTGCCCGGACCCCAAGCCGAGCGAGGATTTCATCCGCA
AACCGCGCATCAGGTACAATATCGAACCGTCCGACCGAGGACGGCATTTTATCAACCCG
TCCTGCGGCACACGCGCAGAGAAGACCGCTTATCAGGCGAGTTAGGAAAAATGATGTCC
AAACAGCCCAACGCAAACTGCGGCAATGGCGCGACGCGCAGCCCGCTGTCGAAGAAACC
GCCAAACCGTTCAAAGCAAGCCGTCCTCAAGATGAAACGGGCAAAACCGCTTCCCAA
CCTTACGGACAAAAAGCTTCAGACGGCATCAAACCTCAAACGTCCTCAACAGCGCGCC
GCCAAAGCCAAAAAATCGTCTGTCGCAATCCCAACCAAAAAATATGGAACACGCGCGC
GATTTGAAAGAACCGCGCAGCGACCTGTGCGCATGGAACCCGAACGCTGCAAAAAAGTG
CTTGCGCGCTCCGCGCTCGGCTCGCGCGCGGAAATGGAAGAATGGATTACCAACGGCTGG
ATAACGGTCAACGGCAAAACCGCGCAACTGGGCGCAAAAGTTACCCCGACGACCAAGTT
ACCGTCAAAGGCGCATCATCAAGCTCAAATGGGCGGACCGCTGCGCGCATCATCTGT
TATTACAAACAAGAAGCGAAATCGTTTCCCGTGACGACCGCAAGGCCGCTCAGCATA
TTCGACCGCTGCGCAGGCGCGCAGCAGCGCTGGGTGCGCATCGGACGCTTGGACATC
AACACAGCGGACTTCTGATTCTTACCACCTCCGGCGAATCGTCCAACGTTTCCGCCAC
CCAGCTTCGAAGTCAAGCGCAATACGCGGTGCGCGCTTGGGCGGGGTGACCGCGCAA
CAAATGCGCGTCTTACCAGAAAGGCGTGATGCTCGAAGACGGCTTGGCAAAAGTCGAA
CGCATCCGCGCAACAGGCGGCAAGGCGCGCAACAAATGGTACAACGTCGTGATTAAAGAA
GGCGCGAACCGGAAGTGCAGCGCATTTTGAAGGCAAGGACTACCGTCAGCGCGCTC
GTGCGCATCGGCTTCCGTTCCATCGGACTGCCCAACCGCTCAAACGCGGCGAGTTCTAC
GAACTCAACCCCGCGAAGTGCAGCAACATCATCAATGGGCGGACATGCTGCTGCCGGG
GAACGCGCGCGCAAAAAAGCCTAAACCGGCCAAAAACAAAAATGCCGTCTGAAACATCT

Appendix A

-309-

GCTGTTTCAGACGGCATTTTATTTCGGGCGTTTTTCAGGAGAAAAGGTCGAGTGCTTTGACA
AAGACCATCACACAGCCGTAGGCGAGCGGTATGACGGCCAATGCCAACGCCACCAGACC
GATATGCCGCCGCCGAAACTTTTTCGCCACAAGGTAAGCGTCGGATATGGCGGTTTCG
TCATCGGGTTGCGCTGTGTGCGGCGGTTTGTATGTCTTTTTCGGTGTGTTTTCTGT
ACGGATTGACGGCGAGGTTGCACAACAAACCGATAATCAGCAGGCACGCCATGATGTAC
ATGGTTACGCTGTATGCCGTGTGCCGCCGGTATGCCGCTGTGCGATTGGCTTTGGCGTATG
TAATTGACCACTACCGGGCCGATGACGGCGCGGTTGACCAGGCCAGCAGGATGCGTCCG
TGAATCGCGCCGACCTGATAGGTGCCGAACAGGTCTTTCAGGTAGGCGGGAATGGCGGCA
AATCCGCCGCCGTACATGGAATAATCACGCAAAAGCCGATGATGAACAGGGCTTTGCTG
CCGCCCTCGCCGATGGAGGGAACGGCGAAATACAGCAGCGAACCGAGTACGAAGAAGATG
GTGTAGGTGTTTTGCGTCCGATTTTGTGCGAAACGCTCGACCACAAAAGCGTCCGCCC
ATGTTAAACAGGCTCAGGAGGCTGACGAAGCCTGCCGCCGACCTGCGCCGACTGCTGCC
TGCCTGCCTATGGAGGTTTCGGAAGAGTTCTGAATCATCACGGATGCCGTGACCCAAT
ACGCCGATGCCCGGCTTACGTTTCAGGCACAATACCCAGAACACAGCCAAAACCTGCGGC
GTTTTTCATGGCTTGGGACACGTTGACATGATTGCTGCTGACCAGCTGTGTTTTCGCTTTTC
GGCGCGTATAGCCTTCAGGTTTTCAGCCGTCGGCAGGTACGCGGATGGTAAACGCCGCCG
AACATCATCAGTGCAGGTAAAGCAGACCCAAATACGGCGAAGGTTTCGGCAACCCCGACC
GAAGCAGCGTTTGAAAAGGTGTTTCATCAGTGATACGGAAGCGGCGAGGCCAGCATTGCG
CCGCCACCGAAACCCATATCGCCAAACCGGTGCGCATACCCGGCTGTGCGGAAACCAT
TTCATCAGTGTGAAACCGGCCGATGTAGCCCAAAACCAAGCCTACGCCGCCGATGACG
CGTTTGGCCAAATAGAGCAGGAAGAGGTTGTGCGTACGCACGCCGAATGCGGATACGAAG
AAGCCCAGGCTGAAGCAGCAGGCGCGGCAATATGGCTTTCGCGCGGCCCTACCCGTTCC
ATCCACGTACCGAACAGGGCGGCCGACGCCGCCAGCATCGCGAGTGCAGTACTGAAATC
CAACCTACGGTCGTCAGCTTCCAACTCTCGCGCGCGGATTTCGGTTATGCCGATAAGTTTG
GTCAGCGGCGGTTGAATACGGAATAGGCGTAAATCTGCCCGATGGCAAGGTGTACCGCC
AATGCTCGCGGCGGTACGAGCCAAACGGTTGAAACCCGGCTTGGCAATGCTTGCCTCACGG
TCTAAAACCTTCATAACATCCTCTTCTGTGTCAGTTGAAAAATAAAATTTTCATTTGCCCAA
TGGAACTTATGAAAAATATAAAAAAATATCGGGTCGGGTTTTTATCCGCCCAAGATG
CGCCGTCTGAAACATTTCCGGGTGTACGGAAGGTTTCTGTTTTTTCGACAAATCTCTGC
GGCTTTTCGCTTCCGGATTCCCGCTTTTTTCAGGAATGACGAATTAAGATTATCTTAAGG
TCAAGGAGCTGGATTCCCGCTTTTCGCGGGAATGACGGCGCGGGGAGCGGTTTTTCCGA
TTGGGTTTTAAATGCAATCGAACAAATCCTGCTGCCCTTGTCTTTGCTTACGCGCACGTC
GGTTTTCGCCGTGCGCGAAGATAATGTGCAGCTTCTGCCCTGCTTCAAAACATCGCGGTT
GCGGATGACTTTCGCGTGTGTTTTGACGACGGAAGCCGCGCTCCAGAATGTGCTG
CGGCGAAACGGCTTCGACCAATGCGGCTTGGGCAGTCAGGCTTGGCGGCGGTGGGTAAG
CAGTTGTTGGAAGGCGTGCAGACGGGCCGTCTGAAAGCGGTCGATGTTTTTTTGCAAAC
GGAAACATCAGGACGGCAATGTTTCAGGGCTTGGGTTTGGCGTTCGAAACGGGCGGTGTG
GGTACGAGCGTTTAAATCGCTTCAGTAAAGACAGCGTTTTCGCCAGCTTGGCATTGAAGC
GCGCTGTTCGTCGAGTTTTTGGCGCGGATGACGGATTTGCCGCGCCAGCCAGTCGAGTTT
TTGGCTGGCATGAAATAGCGTTGTTCAAAACGGTTTTTCAGACGGCATTGGGCTTGGGC
GAGGCGGTGACGCGATTCTTGGCGGTTGGGCTGACCAAGTTCCGCCGACCGGTCGCGCT
GGGCGCGCGCATATCGGCGACGAAATCGGCGAGCGTGAATCGGTTTCGTGGCCTACGCC
GCTGACGACCGGAACCGTGCAGGATTCGATGGCGCGCACGACCGGTTCTTCTGTTAAACGC
CCACAAGTCTTCAATGCTGCCGCCCGCGGACAGACAATCAACACATCGCATTCGGCGCG
TTGCGAGGCGGTTTAAATCGCTTGGGCAATTTGCAATTTCGCTGCTGCGCCTTGAACGGG
TGTCGGATAAACGATAACGGGATTTTCGGGTGCGCGGCGTTTCAAGGTAGTAACGACATC
GCGCAAAGCCGCCCGCCGAGACTGGTTACGATGCCGATACATTGCGGACGGACGGGCAA
AGGTTTCTTGGCTTCGCGCGCAAAACGCGCCTTCCGCTGCAACTGCGCCTTCAACCGCTC
ATAGGCTTCGTAAGGCTGCCCCAAACCTTTGAGCCGTACTTCGTTTACGGTAATCTGAAA
TTCGCCCCGCGCTTCATAAATACTGATTTTTCCTGATACCTCGATATGGTCGCTTCTTT
CAAAGGCTTCGCCAAACGCACCGCCGACCCCTGAACATCGCGCAACGCACCTGTGCGCG
GCTGTCTTTGAGCGAGAAATAATAATGCCGCTGGCGGCACGGGTGAGTTGGATACTTC
GCCGGCAATCCACAAACCGGCAAGGTGGTTTTCCAAAAGACTTTTGGCAATGCGTTCAA
CTCGGAACGGACAACCGTCAGAATGAAAAAATCAGACATCGAATCAATCAAATAGTA
AAAAATATGAATATGTTTTGAAGCCTAAGGCGGCACCGGGCCGCTTAAATTGTCAACAAT
ATTATAACACGCGCCATCTTGCGCCCGCCTTTTCCCGTATGACTTTTTTAAGCGGGGAA
TGGGAAAAATATTCATCAACCTGCCTGCAATCTATTCAAATGACCGCGCGCAGGCTAT
GATCGGATATTTTCGACAGGAGGAAAAATGGATACGCAAGCAGTTATCACACATATCGC
CCGATGGTTGGACGAATACGCCGCCCGGGCAATGCAAAAGGGTTTGTGTTGGGCGTTTC
CGGCGGATCGATTCCGCCGTGCTCTCCGCACTCGCCGCCGACCGGCGCCCCACGCT
GCTTCTGGATATGCCGATACGCCAACACCCCGGCCAGCTTGAGCGGGCAAGGCTGCACAT
CCGCAATCTGCACGCGCAATATGCCAATGTAAGCGCGCAACCGCTGATCTGACCGACAC
CTTCAGACCTTTGAACAAACCGTCGGTGTCTATCAGACGGCATTGACAGTCAGCCGCT
TTCCCTCGCCACCGCCAGAAGCCGCTACGTATGCTGACCCGTGACTACTACGGGCAGAT
ACAGGACTGCTGTTTACGGGGACAGGTAATAAGATTGAAGATTTTCGGCGTGGGCTTTT
TACTAAATACGGCGACGGCGGCGTGGACATCAGCCCGATTGCCGACCTGACCAAAACGCA
GGTTTACCGGCTTGCCGAAGCATTGGGCGTGGACGAGGCGATTCAAAAAGCCCCGCCGAC
CGACGGCCTGTGGGATACGGAACGCACCGACGAAGAACAGATGGGCGCAAGCTATCCCGA
ACTGAGTGGGCAATGGGCGGTACGGCACGGCGCAACCCGAAGATTTTGAAGGGCGGCA
GGCGGAAGTTCTAGAAATCTATACGCGACTTCACCGCGCCATGCAGCACAAATCAACCC
GATTCCTGATGCCGATTCCGCCCGAATTGCTGGGCTGAAACACGGAAATGCCGTCTGA
AACGAAAAACCGTATTTTCAGACGGCATGGAATATCCGACTCCTATCCCTTAAGAAATCGA
GTACGCGGGCAACAAAATATCGTTTTCAAAATGAATGTGGTCTGTTCAAATCCTCCACCA
TTTCTTTTCGCCAGCGCTTAAAGCCGCGTCCAGCTTCCGCAAGCCCTTCTGCGGTTGGA
AATTGTCGGTCAGCTCTTTGAGCCGTGCGATGGCGGGTCTGTCTTCTGTTCTGTGCA

Appendix A

-310-

TCATCACGCCGATGGGCATCGCCGACCGCGTCCGACACCCTGATTAATCATCGGAAACA
GCATCCTTTCTCTTTTCATCATATGCATCAGCAGTTCGTTCTGCATATAGGCAAGCAGCT
CGGCAATTTCCGCCGGAAGGTGTCCGGCATGAACCTGGGCCACTTTTTCGCCCCAGCGGCA
CCAATTTCTCAAATGTGCACGGTGGACATTGTGGTAGCGTTGCAGGATATGATCGACGG
TTGCACCAAGGGGGCGGTCTCCCAAACGGAAAAATCAGTCATCGCAGTGTCTCTTTTAC
AGGGTTTCGGGTTTGGTTTGAACATTCATACTTAAAGAAATCAATTCAAACGGAGCATAC
ACCGCCCGCGCGCTTCTGTACAGCCTCAAACGTATTCTTTACATTTTGATAATAAAAGTA
ATTTTCAGAAATAAAATACTGTCCGAACCGTTTTTTAGAAATTTGCAAAGGCGATTGGGGC
GGTACAGAAAACTATTATCCCGCCCGCCACTTGAAATTTTATGCCCAAGCCCTATCC
TGCACGCTATCGTGCCAATCCCAACCGGAAAGGAAAAATAATGAGCAGCGAATTGATGTG
ACACACCGCGATGCGCGTTTTGAAAAAGACGTTTTAAATGCAGATATCCCGTCTGTCT
GGACTTTTGGGCTCCGTGGTGGCGCCCTGCAAAATGATTGCCCGGATTTTGGACGACAT
TGCCCGCGAATTTGAAGCCGCTGTAAAGTGGTCAAAATCAACATCGACGACAACGAAGC
CACCCCGTCCCGTTTTCGGCGTGGCGGGCATTCCGACCCTGATGGTGTCAAACCGGCGA
AGTCGTGCGCACCAAAAGTGGCGGCATTGGCAAAAGGTGAGTACCGCCTTGTGCGAAGC
CTCTATCGCCTGATAAAGCGCAATCGAAAAAGCCGCGGAAGATTCGGCGGCTTTTTCG
CACCTTTAAGATTTGTGGCGGATTTCCAGCACCCTATGGATTTTGTGTTGCGGAAATCT
TCGGGAACGGATTGTTTGGAAATGTCTTTGACGGCGTATTGTTCCGATACCAAGTCGTCT
AAGACGAAGCTGCGCAGGTGTTGGAAGTACAAAATGCCGTCTGAAGCGAGCAGCTTC
ACCGCGCGCTCAATCAGCTTTTTGTGGTGGCGCTGGATGTGAGGATGTGCGACATTTTC
TTGCTGTTGGAAGAACTGGGCGGGTCCATCACAATGAGGTGCAACCGCCTGCCTTCCCA
TATGCCGTCTGAAGATTTGGAACACGTGCGCGCGGACGATTTGTGTCGTTCCGTATCG
ATGCCGTCAATTCAAATTTGCGTTTCGCCCAATCAAGATATGTGTGGACAAATCGACG
GTTTCGCTGGATGCCGCGCCGCGGTGGCGGCATAGACGGTGAAGCTGCCGGTGTAGGAA
AACAGGTTTAAAAAAGCTTTGCCCGCGCGCTTTCCGCCACTTTTTGCGCGTGTTCGA
TGATCCAAAAAAGCCCGTATCCAAATACTTATCAAGGTTGACCCAAAATTCGCGCCG
TTTTCGGTGATGACGAATCGTCGCCCGCTTCCCGGTTTTCTCGTACTGTGCAACCT
TTTTGGCGTTTCGCGCGTTTGAAGCGGATTGTTTCGGGCGCAAAACCGTAACGAAAGCG
ACGGCTTCCAAGACTTCGCAAGCCACGCTTCGTATTCTTCGGGCGCATCAGCCAGCCG
GTATCGTATTCTGAAGTGGATTGATCGCCGTAAACATCGGCGGCAAGGGGAATTGG
GGGATGTGCGGTCGTAATGCGCCAGGCTTCGATGCCGTTCGCTTTCGCCCATTTTCATA
AGGTGTTTGTATGTTTTGCCAAAGCGTTGGCAACCGGTGTGATGTGCGTATTGGTTTC
AGGCGGAATAAAGTGGAAAAAGCGCAATTTTACTGTAATTAACGCCCGATTGCTTGACCGT
TTCGGGCAAAACCTATACCATCCGTGCTTATCTTGTATACGAAGCCATCGCCTTCCAA
CCTAAACCGCCTTACGGGCGCTTCTTCTGTTGCTTTGATTTTGCAAGCATATCTGT
GCAGGTTGCCGTCGATGTAAACCAAGCAAGCCGCTTGCAGAACCCCTGTAACCTCACA
TTCCCGGTATCGTTACCTTCCCTGCTTCAAGCCGTCTGAACCTTTTCGGACGCGGGCGT
GTTGTCTTCAAGGATAGCCATGTCTATTAATTTGCCGATTGTAACCTTGATAAAAAACA
TTTTGTCCGCGTCAGCGAGCGAGGTTACGAAAGCCGACGCCGATTACGCGCAAGCCCA
TTCCGTTTGTCTTGAAGGCGCGACATCATGGCTTCGGCGCAACCGGCTCCGGCAAAA
CCGCGCGCTTTCTGTACCGACTTTGCAAAAATGACCAACGCGAGCGAAAAACCGGGCA
AAGGCGCGGTGCTTTGCTGTGTTGACCCCGACCGCGCAACTGGCGGCTCAAGTCGAGAAA
ACGCGCTGGCGTATGCCAAAAATATGCGTTGGTTCCGCACCGTCAGCATCGTCGGCGCG
CGTCTTTTCGGCTACCAACCCCGTCCCTGAGCAACCGGTCGATCTGATTGTCGCCACGC
CGGGCGCTCTGATGGACCTGATGCAAGCGGCAAGTTGATTTGAACGTTTGAAGTGC
TGATTTTGGACGAAGCCGACCTATGTTGGATATGGGCTTTATCGACGACATCGAAACCA
TCGTGGAAGCAACGCCGAGCGACCGTCAGACTTTGTTGTTCTCCGCCACTTGGGACGGCG
CGGTCCGCAAACTGGCGCGCAAACTGACCAAGACCCCTGAAATCATCGAAGTCGAACGCG
TGGACGATCAAGGCAAAATCGAAGAACAACCTGCTGTACTGCGACGATATGCCACAAAA
ACCGCTGCTCGATCATATCTTGGCGGATGCCAATATCGATCAATGCGTGATTTTCACGT
CCACCAAGCCATGACCGAAGTCAATTGCGGATGAACGTACGAAAAAGGTTTCGCCGCAA
ACTGCCGTGCACGGCGATATGCCGAAGGCTGGCGCAACCGCACGCTGATGGATTGCGTA
AAGGCCGCTGCAAAATTTGGTTGCCACCGATGTTGCCGCGCGGATATCGACGTACCGA
CCATTACCCACGTATCAACTACGACCTGCCGAAACAGGCGGAAGACTACGTCCACCGCA
TCGGGCGCACCGGCCGCGAGGCCGACGGGTATTGCGATTACGTTTGGCGAAGTGAACG
AATACGTCAAAGTCCACAAAATCGAAAAATACATTAACCGAAAATGCCCGAATGACCA
TCGAAGGCATGGAACCGACCGCAAAACGCAATCCGACGGCGCAAGCCGAAAGGCAAG
GCGGCTGGGCGGATCGTAAATCCGGCGGTTGGCGCGCGGATCATAAACCGAGCAAGAAG
GCTTCGGCGGCAAAACGCGCGGAAGGTTCAAGAAAGAAGGCTTAAGAGAGACGTT
TCAAAAAAACCAGCGCAAGGCTTCAAAGGCAAAACGCAAGCGCGGATCTTTTGCAGGCA
AAGGCGAACGCCGTTACAAAGACCGCTAAGCCCCAACCTGCCGATAAACCAATGCCGTC
TGAAACCGATTTTCGAGTTTCAGACGGCATTTTGAATGTTTTCAGCACCGCCCGGCTTG
ATACCCAAAGGATTAGGCTGTAAATAAAACCCCTTTCCGCTTTGGCAAGATTGAAAT
TCCGTAAATTCAAATATCTAGATTCTTCTGACGGGAATGACACGGAAGGTTTCAGA
TGCAGGTTGGGATTCCTGCCCCCAATCCCGCCCTTGCACCGTGGGCAAGATGCTC
GCCCTACGGCTTACGTGTTGATATGATGCCGTCTGAAACCCCAACGGCGCATGACAAT
GCCACCTGCCAACGCACGTAAATCAGAATTGCCATCCCGACATCAAACGCTTGGAAACA
AATGCCGTCTGAAATCAAACGGCAACATAACAATGTCCCTAACAAATGCAAAAAATGCC
GTCTGAAAGCTCTTACAGCGCATTTGGCGCGCGGGTTTACCGCTCTGCCGAAACCGC
GCATAGCGGGGCGCGGTAATTGGCGGGCGGGCGGTTGTCGGGCGGTAACGCTGCCCT
GCGCGCCTGTTGTTTTGCACGGAGGCTGCGCGTGTCAAATCCCTGCTGGTGCAGCGCAT
TGGGGCTGCGGATGATGGTAGGCTGCACGCGCGCGCGGGGCGACGGGACTGTCTTGGT
TGCCGTGCCGTGTGAATTTGTTTGGCAGCGGCTTCCGATAAACCGCGCTGCCCGCGCG
CGACAGGCTTTGCAGCAGCCAGCTTCTGTGATTTGGTCGTAATATACTGCTGCCCGT
CTTACCGGTAACGGGTTGCCGTTGTTGCCGTTTGCTGCTTGGCGAGGAATGGTGT

Appendix A

-311-

CTTTGACTGCTTCGGGAGTCAGTTGGTAAACCGTATCGTCTGCCTGCTGTGCGAGCTGCT
GTTGACAGGGCTTCAATCTGTTTCTGCTGCTGTTTCGAGCCGCGCCTGCGTGTGCTGTTGGC
AGGCGGCGAGTGGCAATGTTGCGATAAGCGCGGAGGCGATGATTTTTTTCATGTGTGTCC
TGTTTGGGTGGAATAACGGTTTTATTGTATCGCCGTCGGGAATTTTGGCAAGCATTCTGC
CGGCAATTCGTGATGTTTACAGGGGCGAGGTGTGCAATTTGCGGACAAATGCGAGGCTGT
TGGGCACTGGGTTCCTTTGTTTTGCACTTCGTGTTTCGGTTTCTACGGTCAGCAGGCGGC
GGTTTTTGTGTTTGTTCAGGCTCAATTCGGCTTGTGCGGGTGTGAAAAACAGGCGGTGTT
TTTCGGCAAAGCGGCGGCGCGGTGTTGGCGGTTTTCAAATCTGAAGCAGCGATaCGT
CCAGATGGAAGCGTCGCACGCCCAATACGAGAATCCGTGCGGCAAAAAAATCGGCGGCAT
CGGTAACCTCGGCGGGGCTGCTGCGGCTGAAGTCGTGCCGTTCGGCGGCTATCAGGCGCG
CAACGGTGCGGATTTCGGGAATCATCGATTGCTGATAAGTGTGTCGTCCCGCCCTGCAT
CGAGAAGCATGGGGGAAAAATCCTGTGCATCATCGACAATATGCTACAAAGTGTGCAGGG
TTTCGTTTTGTGCGCGGTTTGGGGCATTGCATTTCATGGTCATTTTCTGATTCTGTCTGT
GTGTTGCCGAATCGGCGGACCTGTGTGAAGGTAACAAAAAGCCGCCCCGTTTTTCGAGCG
GCCTGTTTTGCGTATGGGATGGATTTCAGCAAGCGCAAAAAAGTACCGCACGTCTGTGT
GGTACCAATAGCAATAAGCGGTTGTAATTTTTTGCCTTGCAATGATGAAATGCCGTCTGA
AGATAAAAAATATTTGGGGAGATTCTAAATCAAAACGCTGCCGCGCTCAAGCATTTTTATCG
AAATTTTTTTGATTTTTTCATCTATCCGATTGAAAATATTTTCGGTTTTATTTTTACCGCTGC
CCGATATTTGTCGGCAATTTCCCTTTATCTGCTTTGAAAAACGGTGCATAATCCCGAGCAA
AACCGCAATCAGGAGCAATATGCAAAACTATCTGACCCCAATTTGCGCTTGCCCGCA
TGATTCCCGAACCGCTTCAGGCAGCCGCGTTTGGGATACGAAAGGGCGTGAATATATTG
ATTTTTCAGGCGGTATCGCCGTCAATGCGCTGGGACACTGCCACCTGCCCCGTGTGCTGATG
CTTTAAACGCGCAGATGCAACAAGCTGTGGCACATTCCAATATCTATACGACGCGTCCAG
CGCAGGAATTGGCGCAAAAATTTGGTTGCAACAGTTTTCGCGCAAGGTTTTTTTTCTGCA
ACTCGGCTCGGAAGCGAATGAGCGGCGTTGAAGCTGGCGAGGAATACGCCCCGCGACC
GTTTCGGCGGAGGAAAAAGCGAATCGTCGCGCTGTATCAACAGTTTTTCACGGACGCACGC
TGTTTTACCGTGTCCGTGCGCGGTGAGCGGAAATACAGCAAGGATTATGCACCCCTGCGCG
AAGGCATTACGCACGTTCCGTTCAACGATATTGCCGCGCTGGAAGCTGCCGTGCGCGAAC
AGACCTGCGCGGTATCATCTGAGCCGATACAGGGCGAAAGCGGCATCCTGCCCGCCACTG
CGGAATATTTGCAACCGCGCGCTCTGTGCGACCGGCAATGCGTTGTTGATTGTTGG
ACGAAGTTCAAACCGGGATGGGGCATACGGGCAGCTGTTTGCCTATGAACATTACGGCA
TTGTTCCCGATATTTTGTGTTTCGGCAAAAGCCTTGGGCTGCGGCTTCCGATCGGCGCGA
TGCTGGCGACGAAAAAGATTGCCGCCCTTCCAACCGGCACGCACGGCTCGACTTTTCG
GCGGCAACCCGATCGCGTGTGCGGTGCGGACGCGCGCATTCGACATCATCAATACGCCCG
AACTTTAAACCATGTCCGTGAACAGGGGCAAGAACTTCAGACGGCATTGCTGGATTGTTG
GCAGGAAAACGGCTTGTCTCACAAGTTTCGCGGGATGGGGCTGCTACTCGGCTGCGTGT
TGACGGAAGCCTATCGCGGACGCGCATCCGAAATCACCGCGCGCTTGAACACGGCG
TGATGATTTTGGTTGCGGGTGCGGACGATTGCGTTTCGCGCCTTCGCTACTGTTGAACG
ATGAGGATATGGCGGAAGGTTTGCAGCTTTGGAACACGCGCTGACGGAATTTGCCGCGA
CATCAGACAATCCGTAAACTCAAATGCCGTCTGAAGGCGGGAAGGCTTCAGACGGCATC
AGAAAACAAAAACCGCTTCAGAAACGTGGTTCAACGTTCCGAAGCGGTTTTGTTTGGCAT
CAGGACTCGAACACCAATTCCGGTTCCCTGCCCTCTTCGATGACTGCCTTACCGACCAAC
ACTTTTTTCAAGCCTTTCAAATCAGGCAGCGGTACATCGTATCGAGCAGGCGCGTTCG
ACGATGGACCTCAGGCGCGCGCGGTTTGGCTTCCATTGCTGACGCGCATGGAA
CGCAATGCGCCTTCTTCAAACCTCCAGTTTCGACATTTTCCATACCGAACAACGCGCTGATAC
TGCTTGACCAAAAGCATTTTTCGGCTCGGTCAAAATATTAATCAGCGCGTCTTCGTCCAAT
TCTTCTAAAGTTGCAATCACAGGCAACGTCGGATTAATCTGGAATCAGACCGAATTTA
ATCAAGCTTTCGGTTTCGACGATGCCGAACAGCTTGGTAATGTGCGCATTTTCGTCTTGT
CTGTGAACGGACGACCGAACCAGATACCGCCTTTTTCAGTACGCTGGCGGATGACTTTT
TCCAAGCCTGCAACGCGCGCGCGCAGATAAACAGGATGTTGGTGGTATCGACGTTGATA
AATTCCTGATTCCGATGCTTTCGCGCGCCTTGGGCGGAAACGCTGCGCACTGTACCTTCA
ATCAGTTTCAACAAGGCTTGTGTCACACCTTCGCGGATACGTCGCGGTAATCGACGGG
TTGTCGCTTTTCGCTGAATTTTATCGATTTCGTCGATATAGACAATGCCGCGCTGGGCT
TTTTTCGACATCGAAATCATTTTGCCAAAAGCTTGGTAATGATTGCTCGACGCTCTCG
CCGACATAACCTGCTTCAGTCAAAGTTGTGGCATCCGCCATCACGAACGGCACATCCAGT
TTGCGCGCCAAAGATTGCCCGCAGCAGGTTTTACCCGATCCGGTCGGCGCGATAAGCAGG
ATGTTGGATTTCGACAATTCGACATTAGCTCCTGCTTTAGGATGGCGCAGGCGTTTTGTAA
TGTTTGTACACCGACACCGCCCAAGGCTTTCTTGGCTTGTTCCTGACCGATAACGTGGTGC
TTGAGGTTGGCGACGATTTCGGCGGGCGTGGGACGTTGCCGATTCTTCCGGCTCCCTT
CCGGCACTTTCCGAAGGCGTCCGCTCATTTCCGTCTTCATGCAATATTTCAATACAGTTT
GAGACGCAATTCGTACAGATAAAGGCGTTTTTCGCCCTCAATTAATGTTTGAAGTGTGAT
TTGGATTTTCCGCAAAAGGAACAAGTACGGTTTTTCGTTGGACATGGCTTTCTTTACAATG
TATGCGTTACAGAAAACGCGACGTCGCGTTCGGGTTGCCAAGTATAATAACATATCCGT
TCTTATCAATGTATTACCTTAAAAATCCCGCCGATTAGGCTATAATACGCCCTTTTCGCAAC
CGCCCGCGCGCAAAAATCCGCTGTGAACCAAACTGAAATCTGAGGATATTCATGAGA
AAACCCCAACGCGGCTATGCCCGCAAGACCGGTGTCAAAGAACAATATGCGCGAGCTT
GCCGAACCTGTCGTAACCGGACTGAAAGACCGCGCGCGGCTTCATTACCGTCAACGAA
GTCAAGTTTACCGCGATTACGCCACGCCACCGTGTTCACACCATTTTAAACCAAGAC
GCGCGCGAAATTACGGAAGAAGTGTGGAACACGCGCGCGGACACCTCCGCAGCGAATTG
GCCAAACGCATCAAGCTGTTCAAACGCCCGAATGCAATTCAAATACGACGAATCTTTG
GAACGCGGTTTGAACCTGTCCGCCCTTATCGACCAAGTAGCGCGGAAAAACCGGTTGAA
GACTGACGGATATGCCATGCCGTCCGAACATCGAACCATGAATACAGGCAAAACCCCAAA
AACGTGCGGTCAACGGTGTGTTGCTCTTGGACAAACCCGAAGGCTTTCCAGCAACACCG
CGCTGCAAAAAGGCGCGGCTTGTTCATGCCGAAAAAGCCGGACATACCGGCGTGTCTCG
ACCCTTGGCAACCGGACTTTTGCCCGTCTGCTTCGGTGAAGCGACCAAGTTCCGCCAAT

Appendix A

-312-

ACCTGCTGGATGCCGACAAAGCCTACACCGCCACGCTGAAACTCGGCGAAGCCAGCAGCA
CGGGTGATGCCGAAGGCCAAATCATTGCCACCGCCCGCGCGATATTTCTTAGCCGAAT
TTCAGACGGCCTGCCAAGCACTGACAGGCAACATCCGCCAAGTGCCGCCAATGTTTTCCG
CGCTCAAGCACGAAGGCAAAACCGCTGTACGAATACGCCCCGAAAGGCATCGTCATCGAAC
GCAAAGCGCGCTACATTACCGTTTACGCCATCGATATTGCCGAATTTGACGCGCCCAAAG
CCGTCATCGACGTACGTTGACGAAAGGCACCTACATCCGCACCCCTCAGCGAAGACATCG
CCAAACACATCGGCACGTTGCGCCACCTGACCGCCCTGCGCCGCACTGAAACCGCCGGCT
TTACCATCGCCCAAAGCCACACGCTTGAGGCCTTGGCAAATTTGAACGAAACAGAAGCGG
ACAGCTTGCTGTACCTGCGACGTATTGGTTTACACTTTCCCAAACCGTTTTAAACG
ATTATGCCGTCCATATGCTCCACTGCGGACAACGTCGCGTTTGAAGAAGACCTGCCTT
CCGACACGCGGTACGCGTTTACACGGAACCGCCGCTTGTGCGTCTGGCGGAATATC
AAAAAGAAATATGCCGTCTGAAAGCCTTGCGCCTGATGAACACGCGCGCATCCGCCGCT
GAACGGCGGTTAAAAATACAGGCTGTGCTTGAATAATGTGTGATATTTCCGCAAAATCC
CGACACACTCGGACACCGCCCGCTTATCGCAACTTTGCGAACGCCCCGAAACAGCA
AAGACATCAAATAATTGATTTTATAGAATCTATTGCAAAGCCATTTGCCGTTACACAA
GAATGGCACATTAATAACTGATGAGGATTTATAACGATGAAGACAGACATTCAAACCG
AATTAACCCAAAGCCCTACTACACACGAAAAGTATGGGCGAACGAAGAAAAAACCATTT
TAGCCAAAAACATCCTGTTGGATTGGTGAAAAAACCGACCCGACCATTTATCGGTTGT
TATTGAGTAATGATGAGTTAAACCGCATTTCTTTGTGGAAGTGAATGGTGTGCTGGTGT
TTAAATTGCAGGATTTCCGTTTTCTTGGACAAACACAGCGTCAATAATTCTACACAA
AATACGCCAACCGCATTTGGTTTGACGGACAGCAACCGCTTTTTGAAAGACAGCAGTGATA
TTGTGTTGGATTTCGGTTTAAAGATTGTGTGTTAAATGGCGGACAAAGCAGGGAAG
GCGAAGAAATTTATTTTAAACGCAATAACAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGC
CAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCCAGCC
AAATTAACCCGAAAAAGACAAGAAATCTTTTAAATCAAACCTTGCTTTTGATGAAATT
GATCGGCTTTTTGACGCAAAAGCATTCTCAAATCTCTCGCTATACCGCAGACGGCAAA
CAAGCGTTGGCGAAATCAAACGACATTGACAGCGCACACCCGCGGAAATCTCATATC
AAAGGCAATAATCTGATTGCCCTGCATTGCGTTGCCAAGCAGTTTAAAGGCAAGTGAAG
CTGATTATATTGACCCGCCATATAACACGGGTAATGACGTTTTTAAATACAACGACAAA
TTAATCATTTCCACTTGGCTGACTTTTATGAAAAACCGTCTAGAAATCGCCAAAGAGCTG
CTTATGAAAGACGGTTCCGATTTTTGTGTCAATTGACGACAAACGAGGCATATTTGAAA
ATTTTAAATGGATGAAGTTTTCGGAATGAAATTTTATCTGCAATTTATTGGGAAAAA
AAGACAGGTGCGTCCGATGCCAAACAGATAGCGACTATTACAGAGTTTGTCTTATGTTAC
TCAAAGAACTTTAAACAGTTTAAATTAATAAAAAACAGCTTTTCTTATGATACAGAGAGA
TACAAATTAAGTGATAAGTTTGAACAGGAAAGAGGCAATATTATATCGACAATTTAGAT
AGAGGGGGATTGCGATATAGTGACAGTTTGAATTTTGCAATCCAATGTCCAGATGGCACT
TTTACGTATCCGAATGGCAGGACTGAATTTGTCAATGATGGCTGGATATGGAATGGAGT
AAAAATAAAAATGATTGGGCAATTAACAAACGGTTTTTTGGAGTTTAGAAAAATCAAAGTCT
AAAAATCTGGATGGAGTGTATGTTATAAAAACTATATGTTGGTTGATAACGAAAAACAAG
CCGATAGAACGTTCTGCTCCCTATAAGAACTTAATACAGGATATCTTAAATACACATGCG
ACAGATGAATTGAAAAAAGCTTTTCGGCAGCAAGTTTTTACTACTCCAAACCTGAGAGC
TTATTGCAGTATCTTATCAAATTGCCACATCCGAATCCGACATCGTCTTAGACTACCAT
CTTGGTAGTGGGACAACCGCCGCGTTGCCACAAAATGAACCGCCAAATATATCGGTATT
GAACAAATGGATTATTAACAGCTTGTGTTGAACGCTTGAAAAAAGTGATTGATGGC
GAGCAAGGCGGTTATTTCCAAAGCGTGAAATTGGCAAGGTGGTGGGAGTTGTTTTATGCC
GAACTTGCCCCATTTAAGCAACCGCAAAACAACAAATTTTGGCTTGCGAAGATTGAGAC
GGCATCAAACGCTGTTTGAAGGTTTATGCGAACGCTATTTCTTGAATACAACGTCAGC
GTAAATGAATTTAGTCAAACTCATCAAGAGCCTGAATTTCAATCTTTGCCATTAGACGAA
CAAAACAATGGTGCTTGAATGTTGGATTAAATCAAATGTATGTTTATTATCCGAA
ATGGATGACGAACAATTTGCGATTGCTTGAACGATGATGATAAAGCCTTAAGCCGTGCA
TTCTATCAATCAGTAATAAATCAAGCGGAGAAAAAGATGGCGAATAATAAACGTTGTT
TGAAGTGATTGAAAATGAACGTAAAGCGGTTAAAAAATACAAGCCTGAATTACTTGAAAT
GCCAGATTTACGTCCAAAACTTAAATATGATTTTTTTGAATGGCAAAATCTGCCCT
TGAAACTTTTTGATTTTTGACCGCACTTCAAAGCTAGACGATTTCCCTGATTTAAAAA
TAAGCCAACGCATTTGCTGTTCAATATGGCAACAGGTGCTGGCAAAACGATGATGATGGC
GGCGTTGATTTGTATTATTTGAAAAAGGTTATCGGCATTTTCTGTTTTTGTGAATCA
AAACAATATCGTGATAAAACGGAAAAATATTTTACCGATCCGACGACGCAAAATTTTT
ATTTACCGAGAAGATTTTCAGGGCGATACGGTAATTCCTATTTCGCAAAAGTGGAGACATT
TAGCCACATTCAGACGGCATTGAAATTAATTTACCAGCATTCAAAGCTGTATAACGA
TATTCGACCCGCGGGAAAAATCAAAACCATTTGGCGGATTGCAAAATTTGAACCTTGT
GATGCTGGGTGATGAAGCGCACCATTTAAACGCGCAACCAAGGCAAAAAACAAGGCGA
ATTAGATTTAGAAAAGGAAATGAACGACCGCACCAAGCAATGCCGAAATGAACGTAAAGG
CTGGGAGCATATGGTTTTGGAATGTTACTCAATAAAAAATGGCAATCATAGCCAAATGT
GCTGTTGGAATTTACCGCCACGCTGCCTGAAAATGCCGATGTACAACAAAAATACGCTGA
TAAATCATCAAAAATTTGGCTTAAAAAGATTTTGGCAAAAAGGTTATACCAAGAAAT
CAATTTGGTATCCAGTACGCTGGGTAAGAAAGAGCGAGTGTACACGCTTTATTGTTGC
TTGGTATCGACATCGAATTTGCGTTGAAATATGGCATTGCCAATTTCAAGCCTGTGATGTT
GTTTAGAAGTAAGACGATTGATGAATCAAAGCGGATTATCTGGCATTTTTAAATTGGGC
AGAAAAATGTGACGGCGGTTGATTTTTCGTTTTTAACTACATTTTCAACAAGCTTGAACGA
TAGCGATAGCGATAACGCCAACGAACAAGGCAAAACCCGCACTGAACAAGCCCTAAATTT
TATGCAGGAAAAAGCGTTGAGTTTGACATTTGGCAGATTGGGTAAAAACAAATTTATCA
AAAACCAATGCAATTTATTTACCTTCCGAAACCAACAAACCAAAACCGAAAAACCGCA
CAGCGAAACAGAAAAATGCTGAATAATTTGGAAGCGGCTGATAATCCGATTCTGCGCAT
-TTTTACGGTGGACAGATTAACCGAAGGTTGGGACGTTCTGAATTTGTTGATATTGTGCG
TTTGTATGAAGGCAAAACGGCGCGGTTCAAATAAAAAATCAGGCAAAACGGCTGCCGC

Appendix A

-313-

TACTGTATCGGAAAAGCAGTTGATTGGTCGCGGCGTGCCTATTTTCCATTTGCGTTTGA
AGGTAACAGCCGAATAAACGCAATTTTGACAACGATATGCAACACGAATTGCGTATTTT
GGAAGAATTGTTTTATTACACGCACGATGAGCAATCTCGCTATATTACAGAAGTGA
CGAGTTACGAAAAGACGGTTATTTGCCTGAAAAAGACGATGATAAGGTATTGGCAACATT
TAAACTCAAATCTGAATTTGCCGATAATCAGGATTTAGAGAGTTGTTAATTGGGCAAA
TAAAAAATCCCCAATCCCAATGCCAGAGCCAATAATGCAGACAGCCTGAAAGCCAATCC
GCAACCGCTTCCATTTCCAAGTTACGGCAATCAACTGTTGCAGGAACGCAATTTACAGC
CGATGAAAAATGATGAAATAGCCCGACAAATCGACACACAAATAATTTTACTCAAATCAT
AAAAATGAGTGAATGGAACGGCAGATTTTCAATAAATCCCTGCATATCAAGGAAAAAA
TGGTCAATCTTTATCCATTTTGACCGCTTGCAAAGCAAACTCAACATTTACAATCGCAA
TGAATTGCAAAATACTTGTAAAAAGATTGACAAATGAATTTTGGGATTAGGGCAAGA
CAAACAGATCAGCCAGATGACAAACTTGCAGGCTGCCTAAAAATCTTGGAATGGTTGA
AAAACATTTGAATGAAAGTGATATGCCATTTATCGGTACAAAAGATTTACGCCTAAAAA
ATTGTGGGAAATTTTGGGCACACCAAAACAAAAATGGGTCAAAAAAGATGATATAAAAC
TGCCATTGCCACGCAAAATGATTGGTATGTGATGGATAATTTGCTGGAACGAGTTTGA
AGAAGCGTTAATTCAATTTATTTAGAGCATTGGGCGATTGAAGTCTAAATATGATGT
TCATTTAATCCGTAATGAAGAAGTGTAAATGAATAACTTTCCGATGGTGAAGGATT
TATGCCGACTTTATTTTATTGCTGAAAAATAAACAAAAATCTTCTCCAATGGTGTGA
TGACTTTTTCATTACCAATTTTTCATTGAACCAAAAGGTGAGCATTGGTGGAAATGA
TTCGTGGAAGACGCTTTTAAAGGCAATTACAGCGGAATACGGGACGGATAAGATTCT
GCAAAAAGATACACCGCATTTATCGTTTGCCTTTTACTGACAATCAGGA
AAATGAACAATTTACAAAGTCATTCCCTTTAGGGGCGGCATCGCTTGAATAAGAGTGG
TGCATTGACGGCAACCCGTTTGACAAAACCTTCTTTACAAAAGGGCGTTTGTGAGATA
TTAATCAACACATTAATTAATAATACAGCCAAATTTAATGCGCTCCGAACCCGTGTTC
GACGGCATCGTATTTTTCAGTATCTAAACCGTTTCCCTGCCCAATCTTTGCTCTCAA
ATCGAAGCATCGCATCTTGAATATCGCGGTGTCCCGTAAACGCCATAGATATATCCATT
CTTTTATACAGGATTTCCAGCGCACGGGTACGCCCTTCTTCTCCATACGCGCCCAAGCCA
TACAGGAACGCCGACCTATCATGTACCTTTGCGGCCCAAAGCCACGCCCTTCAAATA
TCCTGACCGCTGCGGATGCCGCTGTCCATCCAACTTCGATGTGCTGCGCCACTGCGCTG
ACGATGTGCGGCAAGGCTTTGATGGCAGACCGGTATCGTCGAGCTGTGACCGCGCTGG
TTGGAACAATCAATGCGTCCGCGCCGCTTTTCGTGCTTTTCCGCGTCTTCAGGTCC
ATAATGCCTTTGATAATCAGCTTGCCGCCCAAAATCTTTAATGCGGCCACATCGTCC
CAGCTCAGGCGCGGTCGAATTTGTCGGAAGTCCATGAAGACAGCGAAGACAAATCGCCG
ACGTTCTTCGCGGTCCGACGATATTGCGGAACGTGCGCGCTTCCGTGTTACGATTTTC
ATACACCATTGCGGCTTGGTCGCCAGATTGATTAAATTGGCGATGGTCGGTTTTCGCGGC
GCGGACAGGCGCTTTTGTATGCTTTGTGGCGTTGCCCAAACCTGCAAAATCAGCGGT
AATACCAATGCCGAACATTTGGCATCTTTCGCGCGCTTAATCAGGTTTTCATAAACTCG
CGGTGCGGCATACATAAAGTGAACCAAAATGGTGGGAAGTGTCTCGGCAACGCTCT
TCAATCGAGCAGATAGACATCGTGGACAGCGTAAACGGAATGCCGAATTCCTCGCGCC
CGCGCGCCAAAATTTACCGCTCGGCGTGTGCCATACCCGTGAAACCCGTGCGGCGCAATC
GCCACCGGCATTTTACATCTCTGCCGATCATTTTGGTTTCCAGGCTTCCGCTTCCATA
TTGACCAATACTTTTTCAGCGGAAGCGGATGTCTTTGAAATCCGAAGTGTTCACGGTAG
GTAGTTTCTGTCCAGCAACCCGAATCGATGTAATCGTAAACATACGCGGCAATTTGCGC
TTGGCAACGCGCGCAAGCTTTCGATGCAAGTCATTTGCTCAAATCAGTTTCATTGT
CGCCCCCTGAATCTGAATAACTTTATATGAAATCGATAATGTATATCAATATTGATTA
TAAGGCAATCATTTCACATTTGCGCGATCCGCGCGAGCTCCCTACTTTAAGCGACATA
AGGTTTAAATTCAAAAATAACAAATTAATAATCAAAATATTAATAATCAATCAATCTATC
GATTTAAACAGCATACACAAATCCGCGCTCATACTTGACTGAAACACTCAGATATTGG
ACAATTCACCCACTAATAAAAAACCGACATGGGCAACCACCACCATGAGACTGACCAC
CAAAGGGCGTTTTCGCGGTACCGCTATGCTGGATTGGCGATGAACGCGCAACCCGCGC
CGTCAAATCAGTCATCAGCGAACGCAACGCAAAACATATCCCTCTCCTATCTCGAGCAAT
GTTTCGCAAACTCCGCGCGCGGACTTGTGAAAGCCTGCGCGGGCGCGCGCGGCTA
CATCTCTCGCGCACCGCGGCGCACGCATCAACATCGCCCAATCATCGCGCGCGCGAAGA
CCGGCTGGACGCAACCCAAATGCGGCGAGCAAGCCAACTGCCACCAGGCGCGCGCTGCCT
GACGCAGCATCTTTGGGAGAAATTAACAAAACCACTCAACGACTACCTCGGCGAGCTTAC
CCTGCAAGCATCATCGAAGCAAAAAACACGCGGACGCGGCGCTCGTCCAATTAC
ACACATCCATTAATAACACCCGAAAAAGAAAGAGCAACCATGACCGTCAAAACCCCG
TTTACCTCGACTAGCGCGCCACCCCGCTTGACAAACGCGTTGCCGAAAAATGATTC
CCTATCTGACCGAAACCTTCCGCAACCCAGCCTCCAACAGCCACAGCTTCGGCTGGGAAG
CAGAAGAAGCTGTAGAAAAAGCAGTGCAGACATTGCCGCCCTGATTAACGCCGACTCTA
AAGAAATCGTTTTACCAGCGCGCAACCGAGTCCAACAACCTCGCTATCAAAGCGCGG
CGCACTTCTACAAATCTAAAGGTAATCACCTCATCACTGTAAAAACGCAACAAAGCGG
TACTCGACACCATGCGCGAATCGAACGCAAGGTTACGAAGTAACCTATCTGGACGTAC
AAGAAAACGGTTTGGTTGATTTAGACGTACTGAAAGCCGCCATCCGGAAGACACCATCC
TCGTTTTCGTAATGTGGGTAAACAAACGAAATCGGCGTGGTTCAAGATATTCTCGCATCG
GCGAAATCTGCCGCGAACGCAAAATCATTTTCCACGTTGACGACGACAAGCATGCGGCA
AAGTGCCTGTTGATGTTGAAGCGGCAAAAGTTGATTGCTGTCTATGTCGCGCCACAAAG
TATACGGCCCTAAAGCATCGGCGCGCTGTATGTACGCGTAACACGCGCTCCGCTCG
AAGCCCAATGCACGGCGCGGTCACGAACGCGGTTTCCGTTCCGGCACATTGCCGACCC
ATCAAATCGTCGGCATGGTGAAGCCTTCCGCATTGCCAAAGAAATTTGGCACAAGACA
CTGCACACTACCTGAACTGCGCGATATTTCTCAAAGGTATCGAAGGCATCGAAGAAG
TCTATATCAACGCGCGCTGGAACATCGCGTCCGGAACACCTAAACGTCAGCTTCACT
TCGTGCAAGGCGAAAGCCTGATTATGGCAGTGAAAGAACTGCGCGTATCCAGCGGCTCCG
CCTGCACCTCCGCTCGCTCGAACCCAGCTACGTCCTGCGCGCGCTCGGCCCAACGATG
AACTGGCGCACTCATCCCTGCGCATCACCTTCGGTGCATGACCACGAAGAAGAAGTGC

Appendix A

-314-

AATTCGCCGCCGGAACCTGATTAAATCCAAATCGGCAAACTGCGCGAACTGTGCGCCGTGT
GGGAAATGTTTCAAGACGGGATTGATTTGAACTCGATTGAATGGGCAGCGCATTAAAGCG
TACCAACATGCCGTCCGAACCTTTAGACGGCATTCCAAAACAAAGCAATCAAGAGAAAA
TATGAACGAACAAGATTTAGATTTGGACAAATCTCGACAACCTGCTTGAAGATTTTGACGG
CGTTACCGTGGAAGGCGGCGTCGATTTCGGAACGACGACGGCTGCGAAGGCGGGCGGTG
CAAAATCTAAATCTCAGGCCGTCTGAAAATCGGCAAAACAAACCACTTAAACCATCAAAAA
ACATTAAGGAACACACATCATGGCATACAGCGATAAAGTAATCGACCACATGAAAAATCC
GCGCAACGTGCGGCACATTCGACAAGGGAGACGATTCCGTGCGCACCGGCATGGTCGGCGC
GCCCCGTGCGGCGACGTATGCGCCTGCAAAATCAAAGTGAACGACGAGGGCATCATCGA
AGATGCGAAATTTAAACCTTACGGCTGCGGCTCGGCCATCGCTTCGTCCAGCCTGATTAC
CGAGTGGGTTAAAGGCAAAAGCCTGGATGACGCGCTGGCAATCAAAAACAGCGAAATCGC
CGAGGAGTTGGAATGCGCGCGGTAAAAATCCACTGCTCCATCTTGGCTGAAGATGCGGT
AAAAGCGGCCGTTGCCGACTACCGCAACGTCAGGAAAACAGATAAAGCCCTTCAGACGG
CATCATCCCGCAATGCCGTCCGAACCAACCGCGCTTCAGGTCCGTCCGGGGCGGTACAA
CAAGGAAGAAATATGATTACCCTTACCGAGAATGCGCGAAAACACATCAATGACTATCTC
GCCAAACGCGGCAAGGGCTTGGGCGTACGCTTGGGTGTGAAAACAGCGGCTGCTCGGGG
ATGGCGTACAACCTTGAATTTGACGCTGCGGCTCGGCCATCGCTTCGTCCAGCCTGATTAC
CACGGCGCGCGCATTTATATCGATCCGAAAAGCCTGGTTTATCTGGATGGCACGCAAGTC
GATTACACCAAGAAGGTTTGCAGGAAGGTTTCAAATTTGAAAACCCCAATGTCAAAGAC
TCCTGCGGCTGCGGCGAAAGCTTCCACGTTTAAAGGCATAAAAACGGCGGACCGTATCAA
AACCGTCCCGCATTTTTCGCTTCCTGCCTGTTGTAGCTGCCTTTGCCTTTCCTTTCC
GTTCCACCTTGTGCCGGAACAAATCGGATTTCATAAGGCTTTTAAAGCATGTGCGCGTA
TTTTGCTTTATTGTGCTGCACTTTGCCGCCATATTAGTCCTTTTCGTTTAAAGAGCGG
CAGATTATAAGGCAAAACCTGTTTCTGCGCAAAATCTTACATTTATCATCTACTATGTG
CCAATATTTACCCCTCTTCCGGATTGAACCGCTTTCGATATCGACACCGAAAACCTTGA
ACAAACCTACCGCGCTTGGCGCGCGCTTTCATCCCGATAAAATTCGCTTCAGCTTCGCG
CTTTGAGCAAAAGCAGGCGATGATGTCTTCCACCATCAACGATGCTTACCGCACCTT
GAAAAACCCCATCGACCGCGCGCTACCTGCTGAAAACATCGGGCATCGATGCGGACGC
GCCGGAGCATACCGCTTTCGCGCCCGAATTCCTTATGCAGCAAAATGGAATGGCGCGAAAC
GCTGATGGAGGACGCGGCAAGGCAACGACCTTGAATCCTTAAAAATCTCGACAACGAAAT
CCGCGACGAACAGCAAAACCTGTTCTGCGGTCTGAAACAGTCGTTTGGCCGACAAAGATTA
CGACACAGCGCACAAACAGTCCGCCAAGGCAGGTTTCTCGACAAACTCCGCAACGAAAT
TTCCTCGGCATTATAATCCGCACCGTGTTCAGACGGCGTAACCGCGCACCGTTCGCGG
TCAAAATATGCTAAATTAAGCAACAATTTTGGCATACGAAACATTGAAACCATGACCG
ACGCAACCATCCGCCACGACCAAAATTCGCCCTCGAAACCCCTGCCGGTAAGCCTTGAAG
ACGAAATGCGCAAAAGCTATCTCGACTACGCCATGAGCGTCATTGTGCGGGCGCGCGTGC
CGGACGTTGCGGACGGTCTCAAGCCGGTACACCGCGCGTACTGTACCGCATGCACGAGC
TGAAAAACAACCTGGAATGCCGCCCTACAAAAAATCGCGCGCATTTGTGCGGACGTCATCG
GTAAATACCACCCACGCGGATACCGCGGTATACGACACCATCGTCCGTATGGCGCAAA
ATTTGCTGATGCGTTATGTGCTGATAGACGGACAGGGCAACTTCGGATCGGTGGACGGG
TTGCCCGCGCAGGCAATCGGCTACCGCAATCCGCATGGCGAAAAATTTCCACGAAATGC
TGGCAGACATTGAGGAAGAAACCGTCAATTTCCGCCGAACTACGACGGTAGCGAACACG
AGCCGCTTGTACTGCCGACCCGTTTCCCCACACTGCTCGTCAACGGCTCGTCCGGCATCG
CCGTCCGCATGGCGACCAATATCCCGCCGACAACTTTCTGATACCGTCAATGCCGTGCC
TGCGCTGCTCGATGCAACCGGACCCGAAATCGACGAACTGATCGACATTATCCAAGCCC
CCGACTTCCCGACCGGGGCAACCATCTACGGCTTGAAGCGCGTGCAGGAGCTATAAAA
CAGGCCGCGGCGCGCTGTTATGCGCGGTAAGACCCATATCGAACCCATAGGCAGAAACG
GCGAACGCGAAGCCTATCTTATCGACGAAATCCCTATCAGGTCAACAAAGCCAAGCTGG
TCGAGAAAAATCGGCGATTGGTTGCGGAAAAAACAATGGAAGGCATTTCCGAGCTCCGCG
ACGAATCCGACAAATCCGCTATGCGCGTCTTATCGAGCTGAAACGCAACGAAATGCCG
AAGTCGTCTTAAACCACTTACAACTGACTCCGCTGCAAGACAGTTTCCGGCATCAATA
TGGTGGTTTTGGTTCGACGCGACAAACCGCGCTGTTGAACCTGAAACAGATTCTCTCCGAAT
TCCTGCGCCACCGCGCGAAGTCGTTACCGGACGTACGCTTTTCCGGCTGAAGAAGGCAC
GCCATGAAGGGCATATTGCCGAAGGCAAGCCGTGCGACTGTCCAATATCGATGAAATCA
TCAAGCTCATCAAGAAATCGCCCAACGACGCGAGGCCAAAGACAAACTGCTTGGCGGCC
CTTGGCGCAGCAGCCTCGTTGAAGAAATGCTGACGCGTTCCGGTCTGGATTGGAAATGA
TGCGTCCGGAAGGATTGGCTGCAACATCGGCTTGAAGAGCAAGGTTATTACCTGAGCG
AGATTACGGCAGATGCTATTTTACGCATGAGCCTGCGAAACCTGACCGGCTCGATCAAG
AAGAAATGTGCGAAAGCTACAAAAACCTGATGGGTAATATCATCGACTTTGTGGATATCC
TCTCCAAACCCGAACGCATTACCCAAATCATCCGCGACGAACTGGAAGAAATCAAAACCA
ACTATGGCGACGAACGCCGACGAAATCAACCCGTTCCGGCGGACATTGCCGATGAAG
ACCTGATTCCGCAACGCGGAAATGGTTCGTTACCTGACACATGGCGGCTATATCAAAACCC
AGCCGACACCGACTATCAGGCGCAGCGTCGCGCGGGCGCGGCAACAGGCGGCTGCCA
CCAAAGACGAAGACTTTATCGAAACCCGTTTGTGTTGCCAACACGCATGATTATTTGATGT
GCTTTACCAATTTGGGCAAGTGTGATTGATTAAAGTTTACAAACTGCCCGAAGGCGGAC
GCAACAGCCGCGGCGTCCGATTAAACACGTCATCCAGTTGGAAGAAGGCGAAAAAGTCA
GCGCGATTCTGGCAGTACGCGAGTTCCCGAAGACCAATACGCTCTCTTCGCCACCGCGC
AGGAATGGTGAAAAAGTCCAACTTTCCGCTTTAAAAACGTCGCGGCCCAAGGCATTA
AAGCCATCGCGCTCAAAGAAGGCGACTACCTCGTCGGCGCTGCGCAAAACAGGCGGTGCGG
ACGACATCATGCTGTTCTCAACTTAGGTAAGGCATCCGCTTCAACGAATACTGGGAAA
AATCCGGCAACGACGAAGCGGAAGATGCCGACATCGAAACCGAAATTTAGACGGCATCG
AAGATGAAACCCGCGACGCGCAAAACGCACTGCCGAGCGGCAAAACAGGTGTTCCGCCGT
CCGGTCGCGGACGCGCGGTTTGGCGGTATGCGCCTGCTGCCGACGGCAAAATCGTCA
GCCTGATTACCTTCGCCCTGAAACCGAAGAAAGCGGTTTGCAAGTTTAAACCGCACCG
CCAACGGATACGAAAAACGCAACCCGATTGCCGATTACAGCCGCAAAACAAAGGCGGGC

Appendix A

-315-

AAGGCAATATTGCCATTAACTACTGGCGAGCGAAACGGCGATTGGTTCGCCGCAACCTTGG
TCGGCGAAACCGACGATTGATGCTGATTACCAGCGCGCGCTACTTATCCGCACCAAAG
TCGAACAAATCCGCGAAACCGCGCGCGCAGCAGGCGTGAAACTGATTAACTTGGACG
AAGCGAAACCTTGGTATCGCTGGAACGTGTTGCCGAAGACGAATCCGAACCTCTCCGACG
CTTCTGTAAATTTCCAATGTAACCGAACCGGAAGTCGAGAACTGAAATCATCTCCCGATG
CCGTCTGAAGATTACAGACGGCATTATTTTATCCCTCATCCGTATCCAGCTTCTCACAA
TATAGCGGATTATAGTCAATTAATAAACAAGGGGCTGTCTAGATAACTAGGGAAATTCAA
ATTAAGTTAGAGTTGCCCTATGAGAAAAAGTCGTCTAAGCCGGTATAACAAATAAACT
CATTTGAATGTTTGTGCGCAGGTGTAAGTGAAGAAGCAGCAGAGTTAGTAGGGCGTTAA
TAAAAGTACCGCAGCTATATTTTCATCGTTTACGATTACTTATTATCAAAACAGTCC
GCATTTGGAAATGTTTGTAGGCGAAGTAGAAGCAGATGAAAGTTATTTGCTGAACGACA
AAACCATATCAATGGAATTGAGAACTTTTGAACCGGGCAAACGCTCATTTACGCAAGTT
TGACGGCATTCCCAAAGCGCATTTTGAGCTGTATTTAAAGGGTACGAACGGCGTTTAA
CAACAGTGAGATAAAAGTTCAAATTTCCATTTTAAACAATAGTAAATCGAGTTTATC
CTAGTTATCTAGACAGCCCCAAAACAAAATAGTACAATATTCAACTTTGAAGGTCTAA
CCATGGCATACTCTGCGGACTTAAGAAACAAAGCTTTAACTATAGTGGATTAAATTTAA
ATCAGGACAAGGCGACGAAGCCGACAGACAGTACAATAGTACGGCAAGGCGAGGCAACAC
CGTACTGGTTTTAAATTTAATCCACTATATTACGAACAATGCAAAAACATCAGCCAAACCG
CAGCAACGTTTTAACTTGTCAAGAAACACGCTTTACCTGTGGATTGCGCTTAAAAACAAA
CAGGCAGCTAAACATCAAGTTACCGGTCTAATGCCGTCAAATCGGATAGGCAAAAAC
CGGCTCAATATGTTGGGCAACACCCGGATGCTTATCTGCATGAAATCGCCAAACATTTTG
ATTGTAGCGCAGCCACCATTTGCTATGCACTCAAACAGATGGGGATAACGCGCAAAAAAA
GACCACCACTTACAAGAACAAGACCCGGCCAAAGTAACGCATTATTTGACACAGCCGGC
CGAATTTTCCGACTACCAACGCTTTTATTTGGATGAAACAGGATTGACCGCTACCTGTT
CCGTCCCTATGCCCGCAGCCTGAAAGGGCAAATAGTGAAGCGCAGATAAGTGGAAGAAAG
ATATAGTGGATTAAACAAAATCAGGACAAGGCGACGAAGCCGACAGTACAATAAGTA
CGGAACCGATTCACTTGGTGCTTACGACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCG
AGCCAACGCTGTATCGGTTTAAATTTAATTAATCACTATAAAAACGCAAAAACGCAAAAGCC
GCCGACATTTCCCGCATCCAAGTTTCAGTCAATCAGATAACCTTGGATTCTTTGGTTTTCT
GCATTGATTTCTCTGGTACGGCAGTCAGATTGTGCCACGCCGTATTCGTCGCCGTGCGCG
CATTTGGCATTCAAACCGTTTTTGTGCTGCGGTACTCGGGCATGACGGTTTCGGCAATA
TCGGCGGGCAGTGCCTGAACCGCGCTGTTAGAGCCGCTTTGACAGTTCTTTCTTGTCCG
CTTCCCTGGCCATTTCTGTCGATAAGGGCTTTTTTACGGTTGTGACGCTCTTCCAAGCGTG
CTTCGGTTTTTCGCGCTTTTGCATGCCAGTTGCTGAATTTTATGCCGTTTGGCGTTTTAC
CTTCAGCTTTTCGATTGTTGGCACAGATTTTATCCATCCCGCTTTTCCATGTTTTCTGTG
AGGCTTCGACGTTATTTCTGTACGGTTTGAAGCAATCCTTTCCAGAAGTCTCGAATCGC
TGCGCGACAGCTTGTAGCGTTCTTCCATTTCGATACGCGGGCGGCTTCTGCTCCCGAC
CCAATGCTCCTCGCGCGCTTCTTCTGCGGCTTCAAGTTCTTCGTTCTTTGTTTCA
CTTTGTCCAACGGCTCTTTAATCAGTGCCATAGCTGCGGAACATATATGTTTAAATTTAT
GCAAACCATCATATCGGGATTGCACACGCTCTGCAAGTTTACCAGCGGTTTTCTGTTCG
ATAAAATGCGCTTTGAAACGGTTCGGCGTTAGAGCGGCAATTTTCCGAGGTTTTTATTG
CGGTTGGTCTGCAGGTAGAGGTTGATCAGGCGTTTCGGTCAACTGTCTGCTTTTGGCGC
CCGGTTTTCGCGGTCAGTTTCGCCAAAATGGTTTTAGCCAGTTGTTTGGCGAGTTCCACG
CCCCACTGGTCAAGCTGTGATGCCCAAATGATGCCTTGACGAAGTTTGTGTTTCG
TACATGGCAATCAGGCTGCCCCATATTGCGCGGTTGACCTTGTCCATGAGAATGAGGTTG
GTCGGGCGGTTGCGGAGAGGTTTTGTGCGGGACAGCTCTTCGATGCGCACCTCATCC
ATACCTGCGCTTTGAGTTTCGGCGCGGACTTCGTCGGGGTTTTGCGCGCATAAAGGCT
TCTGCTTGGGCGAAGACTTGGCAAGCAGGATTTCTGTTGTCGGGCAAGTTGCTGCGT
TTTTCAAGCGAGGCAATCAGGTCGATGGGGTAATGTGCGTGCCTTGGTGCAGCAGTTGG
AAAAAGCGGTGCTGGCCGTTAATGCCGTTTCGCCCCAGATAATCGGCGAGGTTTCGTGT
CCGACTGCTTTGCGCTCCACGTAACCTGTTTGGCGTTACTTTCCATATCAGCTGCTGG
ATGAATTTGGGCAAGCGGTGCAAATGTTGGTCTGAAGGCGCGATGACGTGGCTGCCGCCG
CCGTAGTAGTTGATATACAGATGCCGATGAGGGCGAGAATGACGGGCAAGTTGCGCTCG
AGCGGTGTGTTGATGAAGTGTGGTCCATCAGGTGCGCGCGGTTGAGCATTTCAATGAAG
TTTTCTTCGCGGATACAGCATAATCGGCAATCCGATGGCGGACCAAGGCTGTACCGA
CCGCGCACCAATCCCAAATTTCAAACATATTGGCGGTGTGATGCCGAATTCGGCGACG
GCTTTTTGATTGGTGGAAACGGCGGCGAAGTGTTTGGCAACGGCTTCTTCGTCGCCCGCA
TGATTCAAAAACCATTCGCGCGCGGTACGCGCGTTGGTCAGCGTTTTCTGCGTGGTAAAT
GTTTTGGAGGCGATGATGAACAACGTGGTTTTCGGGTGGACTTTGGACAATACGTCGCGC
AGTTGCGAGCGTCCACGTTGGAGACGAAGTGCATATTGAGGCGCGGATGACCGAAAGGT
TTGAGCGCGGTACACATCATCAGCGGACCCAAATCCGATCCGCCGATGCCGATGTTGACA
ACGTCGGTAATGACTTGGTTGGTATAGCCAGCCAGCTTCCGCTGCGGACTTCGTGTGCA
AATTCGCCCATACGTTGCAAAAACGCGGTTGACTTTGGGCATCACATCTTACCCTCAACC
ACAATCGGCGAATTTGGTGGGTTGCGAAGGGCGACATGCAGGACGGCGCGGTTTTCGGTG
GTATTGATTTTTTCGCCGTTGGAACATCTGCGCGATCCGCTCCGGCACGCGCTGCTTCTCGG
GCAAGCTCGAACAAGGACATGTTTCTGTCGTTGATGCGGTTTTTGGAGTAGTCCAGC
GTCAGTCCGCGACTTGCAGCCAGTAGCGTTCCGCGACGCTGCGGGTCTTGTGCAACATT
TCGCGCATATGCAATGTTTTGCTGTGTCAAAGTGATTCCAAATTCGACCATGCGGGT
AAGTCGTGAAGGTGTTTCTATATATGCTCCTGAATGAGGTTTTTTGTTGTGGGATGAAA
AGGCTGCCGGAACCTGCCCAAGCCGCGGACGACCGTTGTTTCGGCATTTACAGCGGCAAT
TGTGGGATGCCGCTGAAGGTCAATCTTTGTCGTAATCGATGTGCTTGTGTGATGCTT
TTTTTGTCTTTTGTCAATGTCAGGCTGGCAGCATGCCCAAGCGCAGGGAAGTCCGATG
GCGAGAATGTGATGACGCGAAGCTGCAAGAGGCGGGAACCATGGGCGTGTAGAGTTCG
GCATTTTCTGTGTGGCAACGCTCAACACGAGTCGGCAAGTTGCGCCAGAGGCGAATCG
TTGCGGGTCAGTGCGATGACAGACGCGCGTTTTCTTTGGCGATGCTGACCGCATCCAAA

Appendix A

-316-

AGTTCGATAGACGAACCCGTGTTGGAAATGGCAACCAAAACATCCTGATCGCTCAAAACA
GATGCCGCCATCAGCTGCGTGTGCGTATCGACATAGGGCAGCGTGGACATGCCGAAACGG
AAAAATTATGCTGCGCGTCTGTGCCACAATGCCGGAATTGCCGACACCGTAAAACTCG
ACGCGACGGGGTGCATCAGCGTGGCAATGGCGTTTCCAGCTCCGACTCTTTCAGGAAG
CGGCGTTTCGCCCAACAGCGAGGGCGGCGCATGCCCAACACTTTCTCGACACGCTTGCC
ATATCGTCTGCGCGTTGAGTTCTTCGTGGACATAGGGCATACCCATGACCGATGCTG
GCGGACAAGGCGAGCTTGAATCGGGCAGCCCTTTATAACCAAGCTGCGGCAGAAATCGG
ATGACGGTGGGCTGAGCGACGACGTTTCGGCAATTTCCGCAACGGCGGCATGGACG
AACCATTGGGTTCCGCCAATGCACATTCGGCGACTTTGCGTTCCGCACCGGAAAGGTTT
GCCAGTGATTCCGTGATTGCTTAACATAATGATATGCCCTTCGATAATGCAGCCCCGC
TGCAAGGAGCCGCTGTGGTTAAACGTTTCTCAAATGGTTGTCAAGAGCCGAGCCGCACC
GGAAATTCCGGGAAACTCGCTCAAGACGACATACACGGGAATCGCGGCAAGATATGCTTC
AAACCTGCCCTTGTCTCGAAACGGCTGCGGAACGGGGAAGTTTGAATATTCACACAC
GCGGGGAATAATGCCGCCACACAGGTACACGCCCGCGCGCGCCAGCGTCAGGGCGAG
GTTGGAAGCAACCGTGCCGAGCATGGCGCAGAAGATGTCCAAAGTCTGACGGCACAAGG
CGACGCGCCGCTCAAAGCCTTTCCGTGATTTCAGACGGCATCAGTTTGGCGGGTTTGGC
TTTCTGTTTTCGACGCAAGCCTCGTAACCAAGCTCAAGCCCGCGCCGCTCAAAAAGCG
TTCGGCGGAAACATGGCGGTATTTGTTTTGGCGTACTGCCAAATCAGCACTTCCATATC
GTCAAACGGCGGAAACTGGTATGCCCGCCCTCGCCCGCCAAAGCCACCCAGCCTGCGTG
GCTGTGACCAATTCGCTTCCGCTTACGCCCAGGCCGCTACCGGGCCGATAACGGCTTTGGGGC
AAATTCGACAGGCTTTTCCCGCCTACCTGCATCAGGTCTTTGCTTGAAGTCTGCGTTAC
CGCCAATGCCTGCGCGGTAAAGTCTTCAAAGGATGAGGGTGTCCAGCCCCAAAGCTG
ACGGGTGGTTTCGATGGAAAACGCCCAATGGTGGTTGGTCATCTGCACCCAGTCGCCCAA
AATCGGGTTGGCGATGGCAATGCCGCGTACCGGTGCGGTGTCACCGCTTTGATTACG
ATAGGCACGCACCGCATCGGTAAACGCTATCGTAGTCTTTACACGGAAGCACGGCGGCTT
TTCAATGACGCGCGCGCGGTTTCCAGCGCAAAGCGTGCATTGCTCCCGCGATATCGGC
GACCAGTCGGGGATATCCGGCTTCCGCTTTGTTATTCGGCGTAGAAGACATGCGAGTTCACTCCT
GATGGTTCAAACGAGGTTGATCGGATATTCGCGGTTTTCGCTTGTGCGGCTTGGTCGA
ACACGGCTTTTTCTCTTCGCCCGTATCGCCAAAACACATGCCCGTATGGGCAATCG
CATCAAAGGTCTACTACGCGCTCGTGCAGCGGTAACGGCGTGGTATGCACCAACG
CGACACCTGCCGAACCGTCGATTGCCGTCTGAAACTGCGGAGCTTTCGGGAAAATCGAAG
CCGTATGCCCGTGTTCCTCATACCCAAAACCAAACATCGGGCTGTTGTAAATGTTTCA
GTGCATAATCGACAACAGCATCGGGATGTAATTCGGTTTCAGTTTTCGCTCTCCACCA
TAGGAATTCACATTCGCGCTTCCGCTTTGTTCTTCAACAGGTATTCGCGCACCACCAACCG
TATTGCTGTGCGGCTGGACGCTCGGCACGATGCGTTCATCTGCCAAGGTGATGCCGACGT
TTTTCCAAATCCAAATCTTTTGGACAGGGCGTTGAAAAATGCAATCGGCGAACGTCGCG
CGGAAACTGCCAACCCGACCGCCCTTCTCGTCCAGTGCGCCCTGCAAAGCATCGGCCA
CTGCGTCAGCCAAAGACTGCGCCGCTTCTGCCGATTTTCGTATTCGTGCCAAACAAACA
TATTTGTGTCTTTTTTATTTTACGACGGCATATTCGTTATGGAACGGGTTGAGCAAT
ATGTCGGCCGAACAGTTGTTTATGCTTTTGATACCAATATCGGGACTGCTTTTTATAGT
GGATTAATTTAAACAGTACAGCGTTGCCCTGCGCTTCCGCTATTTGTACTGTCTG
GGCTTCGTGCGCTTGTCTGATTTTGTAAATCCACTATACTACTTTACTTATGTTGAGA
CGGCATTTCAAACCCCATGCCGTCTGAACGCAATTTGTATTACTGCTCTTCGTGCCACT
TGTGTCCGTGCGCGCCAAATGTTGCGCGCGGCTTCAGGCCCCACGAGTGTGCGCGCT
AGCCGTGCGCGCGGCTGGTGTATTTGTCCAGTTTTCAAAATCGGCATCACATATTTCC
ACGCGGCTTCAAGTTCTGTCGCGCGGTTAAACAAAGCGAGTTTGCCGTTAATCACATCCA
GCAGCAGGCGCTCGTAAGCTTCCGCGCGCGGCTTCCAAATGCTTTGCCAAATCGGTTG
CCAGCGGCACGGTTTCGACCTTATTTCTGCCCCCGGGTTTTCATCTGCGTATAGAGGC
GCACGGATTCAATAGGTTGCAACTCGATAACGAGCCGTTGGGCGCGGTGCGGCTGCCTT
CAAAAATATGGCTGTCAAATCTTTGAAGTTCAAACGATTTCGCCCACTTTGCCCGCCA
TGCGTTTTCGCGGTACGCGTAGAAGGGAACGCCCTTCCAGCGTTGCTTTTCGATTTCGG
CTTTAATGGCGACGTAGGTTTCGGTAAAGCTGTCTTGGGAACGTTGATTTCTTCAAGAT
AGCCGTTTCATGCTCTGCGCGCGGTATATGTCCGCGCACGACGTTTTCATGACAGACT
CGACGGTCAGCGCTTCAATGACTTGATGACTTTGACTTTTTCATCGCGCACCGCGTCGG
CATCCAAGCTGGCGGGGCTTCCATCGCAGTCATGCACAACATCTGCATCAAATGGTTTT
GCACCATATCGCGCAACGCGCGGTAATGTCGTAAACTCACCGCGCTCTTCCACACCGA
GCTGTTCCGGCATGGTCAACTGCACGCTTTCGATATATTTATGTTCCACAGCGGCTCGA
ACATTACATTGGCAAAACGACGCGCAAGCAGGTTTTCAGGCTTTCTTTGCCAAGGTAGT
GGTCGATGCGGTAAATTTGCCCTTCTTTGAAATAACGCGCAACATCGGTATTGATTGCT
GGGAAGAGCCAAATCCGTACCCAACGGTTTTCCAAACCTACGCGCACATTGTGCGCAT
TCAAACCGATCGCAGCAAGGTTTTTCACAGGCTTGCAGCAAGAATTTGGGCGCGGTGACA
GATAGATGACGACGTTGTGCGTTTCTTTGCGCGCTTTGACCAAATCGCCAAAGCGGCAA
AATCGTCCGGCTGCGTAACATCGACTTTGAGATATGCGAAACGTTGCACAAACGATGCCC
AAGCCTCATCGGAAAAATTTCTTTCACATGGATTTTGGAACTGGTTTCCACCTTCGCCA
GAAAACCTTCGGTATCCAACTCGCTGCGGCTGACCCCAAAATACGCCCTTCGGGATGAA
GCAGACGGCAACATGCGCTGGTACAGACAGGGCAACAGCTTGCAGCATCGCCAAATCGC
CGGTGCGACCGAACAACACCAAAATCAAAATTTGTTTGTGTACTCATCGTATTATCTCGTC
AGGAAAGAATTTTTCGATGCCGCTGAAACCTGTTTCCCCATCACGCTGCATCGCAATA
TCGGAAACAAAGGCAGGCGGCATAATGAGTAGTAATACTACACACCGCTACACTTTTTGT
CTATTCCCATTTTACAATTTATTTGACCTAGTCCAAAATCGGGCAGGTTTCCCTATT
CCGTTACAACAATCGAAAGATTCTGCGATTTAAATCAAATTTCTTTTCAATGCCTGATTT
TTTTGTAAACAAATTAACAAATTTGTACTATAATAACACCCGCTTCCACTTTTCAGACGG
CATACCTTTTAAATATAGTGGATTAAACAAAATCAGGACAAGGCGACGAAGCCGACGAC
AGTACAGATAATACGGAACCGATTCACTTGGTGTTCAGCACCTTAGAGAAATCGTTCTCT
TTGAGCTAAGGCGAGCAACCGCTACTGTTTTTGTAAATCCACTATACTTACCGTCTG

Appendix A

-317-

AATACCCGATACAAAAATCAGAAACGCACAAACAAATCCCCAATACCCCCCGTTCCGA
CAGGAGACCGACCGTGAACACTACTCCTATCCACTCCAACTCGCCGAAATCACCGGGCG
CATTATTGAACGCAGCCGTCGACGCGTGAAAAATATCTGGCGAAGATCCGCAGTGCCAA
ACAAATGGGACGCTTAGAGCGCAACAGCTCGGCTGCAGCAACTTGGCACACGGCTATGC
TGCCATGCCATAAAGTATCAAATCGAAATGCTTCAGGAAACCGTCCCCAACTTAGGCAT
CATCACCGCCTACAACGACATGGTTTCCGCACACCAGCCGTTTAAAGACTTCCCTGACCA
AATCAAAGACGAAGCGCAGAAAAACGGCGCGACCGCCCAAGTCGCCGGCGGCACGCCGC
CATGTGCACGGCATCACGCAAGGCTACGCCGGCATGGAATTGTCGCTGTTCTCCCGCGA
CGTGATTGCCATGAGTACCGCATCGGGCTGTCGCATCAAATGTTTGACGGCAGCCTGTT
TATGGGCGTATCGCACAAAATCGTTCAGGTTTGATGATAGGCGCGCTTTCGTTCCGTCA
TATTCGGGTATCTTCGTCGCCGAGGCCGATGTCCAGCGGTATCGGCAACAAAGAAAA
AGCCCGACCCCGCAGCTTTTCGCCGAAGGCAAGGTCGGACGCAACGAACTTTGAAAG
CGAAATGGGTCTTACCACAGCCCGGGCACCTGCACTTTCTACGGCACGGCAAACTCCAA
CCAAATGATGATCGGAAATGATGGGCGTGACCTGCCTGCCGCCGCTTCGTCCACCTTA
CACCGACCTGCGCGAAGCGCTGACCCGCTACGCCGCCGGACACCTCGCGCGCGCATCAA
AAACGGCAGGATTAACCTTTGGGCGAAATGTTGACCGAAAAATCCTTTATCAACGCCCTT
GATTGGCCTGATGCCAACCGCGGTTTCGACCAACACACCATGCACTCGTCGCTATGGC
GCGTGCGGCCGCGTGATTTGAACTGGGACGACTTCGACGAAATTTCCCTCCATCATCCC
GCTGCTCATCCGCTTTATCCGAACGGCAAGGCCGACGTGAATCACTTTACCGCAGCGGG
CGGACTGCCCTTCGTTATCCGCAATTCGTAATGCAGGCTGTTGCACGACGATGTCGA
TACCGTCGTCGGACACGGTATGCGCCACTACACCAAGAGCCTTTCTTATCGACGGCAA
ACTCGAATGGCGCAAGCCCCGAAACAGCGGCAACGACGACATCCTGCCAAAGCTGA
CAACCCGTTCTCCCCCGACGGCGGCTGTCGCCTGATGAAAGGCAACATCGGACCGCGGT
GATTAAGGTGTCGCCGTCGCGCAAGGCTGCCGATTATTGAAGCGCTGCCATCGTGT
CAACGACCAACGCGAAGTGTGGCTGCGTTGAACGCGCGAGTTGGAACGCGATTTGT
GTGCGTCGTCGCTACCAAGGCCCGCGTGCCAACGCTATGCCGCAATTGCACAACTGAC
CCCGCTTTGGGTCCTGCAAGACCGCGCTTCAAAGTGGCGCTGCTGACCGACGGCCG
TATGTCGGCGCGCTCGGGCAAGTTCCAGCCTCCATCCACATGACACCCGAAGCCCTGAT
GGGCGGCAACATCGCCAAATCCGTACCGCGACCTGATCCGCTTCGACTCCGTTAGCGG
CGAACTCAACGTCCTGATTAACGAAACCGAATGGAATGCCCGCGAAGTCGAAAGCATCGA
CTTGGGCGCGAACCACAAAGCTGCGGCCGCGAACTCTTCGCCAACTTCGCGAGCATGAC
CAGCAGCGCGGAAACCGGTGCCATGAGTTTCGGCGGCGAATTTGCCGTGATGCGCGTTCA
GACGGCTTTTCAGACCGAAGGCCGCTCTGAAAAATTAATCAAGCGTTTAAAGATAGACGT
AGGTTGGATTCTCGAATCCGACACAGCCGTCGAAGTGTGCTTTCTGAAATCCGACCTA
CAACCTGTCCCATCTTAATAAAATACCCCATTCACCCGGAGAACCAGAAATGTCCAACT
GACCCCGCGCAAAATTTTACCGCGCGGCGAGTTGTGCCGTAATGGCGATGACGACTT
AAGCACCGCCATCGATTTGTCCCACGCCCTTGTGCAAGCGGCATCCCTACCTCGAAAT
CACCTGCGCGACCCCTGTGCGCCCTCGATGCCATCCGCTGATTGCCAAAGAAGTGCCAA
CGCCATCGTCGGCGCAGGTACGGTAACCAATCCCGAACAGCTCAAAGCCGTGCAAGACGC
AGGCGCGGTTTTGCGCATCAGCCCGGGGCTGCATGAATCCCTCGCCAAAGCCGGCCACAA
CAGCGCATCCCTGATTCCCGGTGTTGCCACCCGGGCGAAATCAAATGGCTTTGGA
ACACGGCATCGACACCTCAAACCTCTTCCCGCCGAAAGTCGTGCGCGGCAAGCCATGCT
CAAAGCCCTGTACGGCCCTTACGCCGATGTTGCTTCTGCCCGACAGGCGGCATCAGCCT
CGCCACCGCGCCGAGTACTTGGCACTGCCAACGTCCTGTGCGTCGGCGGCTCTTGGCT
GACACCGAAGAACCCGTAACAAAGACTGGGACACCATCACCCGCTCGCCAAAGA
AGCGGCGCGGTTGAAACCCAAAGCCTGATTGCGATCGTAAATGCGCTGTAACAACTT
TTCCCGTTTCAGACGGCATTTTGGCGATTGAGGGCACAGTCGGCATACACGGCAGCACTG
ATCAGACATACCGCCCTTAAATGCCCATCCGCTTCCGCATAATAAAAAATACGTTTCA
TTCATTGACAGCAGCGGACAGCCCATACTACGCGGCTGAAAAATGCCGTCTGAAACG
CATTACAGACGGCATCACTTAAAAAAACAACTGATTCAACGCCGATTAATCCGCTTCCA
AAACCACTTTCATCACTTGGTTTTTCGGCGCGGTGTTGAACACGTCGTAGGCTTTTCCA
ATTCACTGAATTTGAAATGATGGGTGAGCATTTTGGTGTAAATCGACGGAGCTGCTGGAAA
TCGCCTTCATCAGCATTTTCGGTGGTATTGGCGTTTACCAGACCGGTAGTGATGGCAAGCT
TTTTAATCCAGAGTTTTTCCAGTTTGAATCAACGGATTGACCATGTACACCAACCACAG
CGATATGGCCGCCGGGTTTCACAATGTCTTGGCACATATTCCATGTAGCAGGGATACCGA
CGGCTTCGATGGCGCAATCCACGCCGCTTCGCCGACGATGGCAAGACTTGTGTTGGATA
CTTCGCCGGAAGCAGGGTTAATGGTATGGGTGCGACCCAATTTCTTCGCCAGTTTCAAAC
GGTTTTTCGTCCATATCGCAACAGATGATGGCGCGGGACTGTACAGTTGGGCGGTCAACA
GGGCGGACATACCGACAGGGCCTGCCCGACGATGAATACGGTGTGCGCGGGTTTGACAT
CGCCGTATTGCACGCCGATTTCTGGGCGGTGCGCAAGCGTCGCTCAACAACAGGGCGA
TTTCTTCGTTGACATTATCGGGCAGCGGAACGAGGCTGTTGTCGGCATAAGGCGTACGGG
CGTATTGCGCCTGAGTACCGTCAATCATGTAACCAAAATCCAAACCGCGTTACGGCAGT
GTGAATAGAGTTGGGTTTTGCAAGTTGTCGCAAGTGAACATTTGCTGACGATGAATAA
TGACTTTATCGCCGACTTTGATGTTTTTACAGCCTCGCCGACTTCTTCTACAATACCGA
TGCCCTCATGACCGAGAAATACGGCGTCGGCAACTTCGGGGTTTTTGCTTTCCAAATAC
CCAAATCGGTACCGCAAACTCGTGGTTTTTGACGATTTTACCACCGCATCGGTGCGATCGA
TAATCTCGGACGGGTTTTTCTTCAAACCGGATGTCGTTTGCGCCGTGATAAACCATTG
CTTTCATGCTGATACTCCTTGCTTGTGTGATAAATAATTTCAATACCGCAATAAAGTTTCT
TTATATGAGTTTATGCCCCACAAAAATAAGTCAATAAGAATTATTTTCAATGTTA
TACAATAACATACCGTTTTTAAATATAAATAAACACCGGATGATATTAATGAACACACC
CATCCCCCTTCTCCGAACGGCTCATCCGCTGGCAAAAACAACAGGTCGCCACCACTCCC
TTGGCAGGTCAAAAACCTTATTGCGTCTGGCTTTCCGAATCATGCTCCAGCAACGCA
AGTCGCCACCGTGTGGACTACTATCCGCGCTTCTTAGAAAAATTTCCGACCGTTTCAGAC
GCTTGCGCGCGCGCGCAAGACGAAGTGTGTCGTTGTGGCGGGCTTGGGCTATTACAG
CCGCGCGCGCAACCTGCACAAAGCCGCAACAAGTCTCAGGCAATTCGGCGGCACGTT

Appendix A

-318-

TCCGTCGGAGCGCAAAGACTTGGAACCCCTCTGCGGCGTAGGCAGAAGCACCGCGCCCGC
CATTTGCGCCTTCTCCTTCAACCGCCGCGAAACCATTTTGGACGGCAACGTCAAACGCGT
ACTCTGCGCGGTGTTCCGCCGCGACGGCAATCCGAGGACAAAAATTTGAAAACGCGT
CTGGACACTTGGCGAAAGCCTGCTGCCGTCTGAAAACGCCGATATGCCTGCCTATACACA
AGGTTTGTATGGATTGGGCGCGACCGTGTGCAACGGGACGAAACCCCTTGTGCCACCAATG
CCCGATGGCGGACATCTGCGAAGCGAAAAAGCAAAACCGCACCGCCGAGCTGCCGCGCAA
AAAAACCGCGCGGAAGTACCGACCCCTGCCGCTTACTGGCTGATTGTCCGCAACCGGGA
CGGCGCGATTTTGTGGAACGCCCCGCCAAAGGCATTGGGGCGGGCTGTATTGCGT
GCCGTGTTTTGAAAGTTTGAACGGGCTTTCCGACTTTGCCGCCAAATTCTCCCTGACCAT
GGCAGATATGGAGCAACAAACCGCCCTGACCCACCGCCTGACGCAACCGGCTGCTATTGAT
TACGCCCTTTGAAGCACAAATGCCGTCTGAAAGCCCTTCAGACGGCATTGGATAAAGCC
GGCGCATTTGAAAGATTACGGTTTGGCCAGCCCTTTGGAATTTTATTTAAACGGTAATAG
GTTAGAATAAACAAATAAACCCATTGAACTGTTGTTTGCAGGTATCGCAGCAAGAACAA
CCGATGAATTTGGGTGCTATTTTAGGCGCGGGATAATGTTCAAATGGGACATTGGAAAC
GGAAGAGTCGCGCAATTTAAAAAGGATTTAAAAAGCAAGAAGGTCAAACATGAACAC
AAACTTAAATGACAAAGACAAGCCATGGATACCGCAATCAGGTTTCAGAAAAGGATGAG
GATTCGAAATTTTCTTTTAAATTCTCGGAATCACAATGGTTTTGGCATTTATCCAAGA
CGTGATAACGGGTTCTAATTTTCTGCAATAACAATTAATGTAATTTTCTGTAATTTT
TATCGGCTTTTAAAAACAAATGACTAAATAGTCGCGAGTTTTTACTGCAATAAAGGAG
ATTGCAATGAATATGAAACCTTTATTAGCACTAGCGGTTAGTGCAGTATGTCAGTTGGT
GTTGCGCAAGCACACGAGCATAATACGATACCTAAAGGTGCTTCTATTGAAGTGAAAGTG
CAACAACCTTGATCCAGTAAACGGTAACAAGATGTGGGTACAGTGACTATTACTGAATCT
AACTATGGTCTTGTGTTTACCCCTGATTTACAAGGATTAAGCGAAGGCTTACATGGTTTC
CACATCCATGAAACCCCAAGCTGTGAGCCAAAAGAAAAGGATAAATTGACAGCTGGT
TTAGGCGCAGGCGGTCACTGGGATCCTAAAGGTGCAAAACAACATGGTTACCCATGGCAA
GATGATGCACACTTAGGTGATTTACCTGCATTAAGTGTATGTCATGATGGCACAGCAACA
AATCCGTGTTTTAGCACACGCTCTTAAACATTTAGATGATGTTGCGGTCACCTCTATTATG
ATCCACACGGGTGGTGATAATCACTCCGATCATCCAGCTCCACTTGGCGGTGGCGGCCA
CGTATGGCATGTGGCGTGATTAATAAATTCGATTGTTGCAACGAAAAGTGCGGTGAATT
TTGACCGCACTTTTTGCTAGATATTTAGCATTGAGACCTTTGCAATAACATAGGTTACT
AAAATTTTATGCTCAATCTCATTTTCAAATGCAAACTTTTCTGATTTTCTCTACTTTT
TGCTCAATATTAGGAAGGTTTTAGGCAATTGAAAATTTTTTGGCGCATTTTATGCGTCA
AATTTGTTAACAGACTATTTTGGCAAAGGTTTCAATTCATAAGTTTCCCGAAATTCCAA
CATAACCGAAACTGACAATAACCGTAGCAACTGAACCGTCATTCCGCGAAAAGCGGGAA
TCTAGACCTTAGAACACAGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTAGATT
CCCGCTTTCGCGGGATGACGAAAAGAGACCTTTGCAAAATTCCTTTCCCGACAGCCG
AAACCCCAACACAGTTTTCGGCTGTTTTCGCCCAAATACCGCTAATTTACCCAAAT
ATCCCTTAATCTCCCGGATACCCGATAATCAGGCATCCGTGCTGCCTTTTAGGCGGC
AGCGGGCGCACTTAGCCTGTTGGCGGCTTCAACAGGTTCAAACACATCGCCTTCAGGTG
GCTTTGCGCACTCACTTAACAGTCCGAAATAGGCTGCCGGGCGTAGCGGAATTTACG
GTGACGCTACCGAAGTCTGTTTCAACACATAACGGGTCTTCGACAAATATCGGTGCG
TTTGGTTTGCACTTCCGTCAGCGGACGGTTGCGGTGGGCTTTGCGCATAATGCCGTCCAG
CAACTGATGTTCTCCAGATGTTGCCGGTTTCCGCACTGTCGTAGCCTTTGTGCGCATA
GACGGTGTACCTTTGGGCAGTCTTCCAACAACGGCGACAGGTGTTGCACTCATGGGC
ATTGGCGGGGTAATGTGCAGTTTCTCGATATAGCCTTCTGCATCGGTACGGGTATGTTG
TTTGTAAACCGAGTTTGTAGAGGCGTTTTTCTTTATCCAACGGGCATCGCTGTCTTACT
CGGTGTGGTTTGACCGCTGATTTGTCTTCTCTGCAACTTCTATGGCCTGACGCTGTTT
GCTGCCGCGGCTGTGAATAATGGTGGCGTCAACGACGGCAGCGGATGCTTCTCTATTTT
TAAACCTTTTTCGGTGAGTTGGCGGTTAATCAGTTCCAACAGTTAGACAGGGTATTGTC
TTGCGCCAGCGGTTGCGGTAGCGGCATAAGGTGCTGTAATCGGGGATGCTCAGTTGCTC
AAAACGGCAAAACAGGTTGAATAATCGATGCGGTAATGAGGCTGTGTTGAGTTGCGGAT
GGAGAGGCTGTGCCATTGTCCGAGCAGGACGGCTTTGAACATGGACAGCAGGGGATAGGC
AGGACGGCGCGGTGGTCTCTAAGGTAACGGGTTTTTGAACGGTTGAGGTATTGTTGAT
CAGCTGCCAATCAATACCCCGTCCAATTCAATAGCGGGAAGCGGTGATGTTGTTGGC
AATCATGGCTTGGGCGGTTTGTGGAAGAAGGTGCTCTTGAGAAATCCCTAAATGTCTT
GGTGGGAATTTAGGGGATTTTGGGAATTTGCAAAGGTCTCTAGATGAGTGAAAAAGAA
GTGACGGCTGCTTAAAGACAGAAAAAGTCTTTCCGGCAGCCTGCACTTTGGTTTCATT
TCAGTCAGTAACCCAGTAACACGAGGCTGAAAACGCGAGAAGTTACGAAAAAGCAGC
CTACACGCCCATCCCCGCTTCTACCCGTTCTGTAATCATACAGATAGCGGTAATATC
CGTTCCGCTTCCGACGAAATCTGCTGTGTTCCGCTTCCACAATCTGCTTTATCCA
TGGCAATGATCCGCTGTGCCGTTTTAACAGTGGACAGAGGTTGGGCGATAATCAGCACC
TCCGTTGGCGCAAATGGCCTGCATGTTCTGCATAATCGCTCGTTCACTTTTCAATAATCCA
GCGCGCTGGTGGCTTCTCAAAAATCAGAAATGCGCGGATGGTGATTAACGCGCGGGCAA
TCGCAATACGCTGCCGCTGTCCGCCCCGACAAGCCGGCCCCCTTGTGCCCCACCGGTGC
CGTAGCCTTCCGCGCATCCATATAAATCGTGTGCGCCCGCCAGTTTGGCTGCTTCA
TAATGCGTTCCAGCGGCATACCGTATCCGTGAGCGGATATTGTCGCGTATGCTGCGGT
TGAGCAGCACATTCTCTGCAAGACACCGCGACCTGCCCGCGCAGCCAGGAGGAGCGG
CCAAAGCCAAATCGTTGCGCTCCACCAACACCGTCCCTGCTCCGCTACATACAGACGCT
GCACCAATTTGGTGAGTGTGGATTGCCCCGACCCGAACGTCCCAATCCCCAGCACTT
CCCCCGCCGAATCCGAGGTTCAAATCTGCAAAATCAGCCTGCCGTCCGCTTATAGC
GGAATCGACATGTTGCAACGTAATCTCCCCCGGATATCGGGCAAAGCCAAATGCGAAG
ACGATTTCTCGCTGCGCGCATTCAGAATATCCCCAAACGCGCCACCGAAATCCCCACCT
GCTGGAATCTGCCCAACTGCGCCAAACGGATAACAGGCGCGCCACCTGTCCCGAGA
GCATATTAACGCAATCAGCTGCCCCACCGTCAGCTTGCTCTCAATTACCAGCCGTGCGC
CAATCCACAACGTCGCCACCGTCACCAGCTTCTGAATCAGCTGCACCCCTGCTGGCCGA

Appendix A

-319-

CCACCGCCAACCTTCGTTACCCGAAATCCCGAAGCCACATAAGCCGCCAAGTATTGTCCC
AACGCTCGCTCATCTGCGGCTCCACCGCCATCGCCTTTACCGTACCCACCGCAGTGATGC
TTTCTACTAAAAACGACTGGTGTCTGCTGCTGCGCGCACTTATCGTTCAGACCGGTCC
GCAGTATCGGACTGATAAATGCCGACAAAACGCATAGGCAGGCAACGAAGCCAATACCA
CCCAAGTCAGAGTGGAGCTGTAATACCACATCACCGCCAGAAAGATAAACGAAAACGCCA
AATCCAACACCGAAGTCAGCGCCTGACCGGTCAAGAAATTCGGAATCTGCTCCAATTCCC
GCACCCGAGCCACCGTATCACCCACTCGTCTGTGCTCGAAATAGGATAAAGCGAGGAAA
GCAGATGCCGGAACAAACGCGCGCCCAATTCCACATCAATACGTGAAGTCGTATGTGCAA
ACAGATACGTCCGCAAAACCGCCCAACACAAATCTCAAACAGCGACACCACCAACAAAGCCA
CCGACACCAATCCAAAGTAGAGAAATCCCGATGTACCAGCACCTTGTCCATCACCACTT
GGAAAAACAGAGCGTAATCAGCGCAAAACAGCTGCAACACCACCGACACCACCAATACTT
CAAAAAACAACCGCGGTATTTGATTACCGCCGGAATAAACAGGTAAAGTCAAACCTTG
CCAACTGCCCAATACCGAAGCGCGGGAAGCAACCAATATCAGTTTGCCCGAATATCTGT
TAGAAAAATTCGGCAAAAGACAAATACCGCAGACTTATTCGTAACCAATCCTGTATCAAAA
ATTGGGCATGCTCACCTCACCGTCTGTTTGGCCAAAATGAAATGGTTGCGGTATCAC
ACCATACCAATGCGGGTAAAGTCGCCATAGCCAAACGTTTAAATAGGCTGGCGGACTACCT
TTGCCTTCAATCCCAAGATTTGGCGGTAAACAGCATTGCGTTTCAATTAATCGCTCT
GTGCGGAAGTACAAAATTCATGCTGTATATCGGCAGGATTGGCGGCAATGCCGTGGTAAT
GGGCGAGGATGATGAGGCGGAAAGGGCGGGGAGCGGTGCGGATACGATAGACATAAATA
AAATATAGTTAGATTGGATGTGGATAACGGCTGGCTGGAAGAAGTAATATTAAGTAGAA
AGAAATATATAAATAAACAGCAGACGAAACGCATTGTAAGGATATATATGGGAATTGTAAGA
GAAAGTATGGAAAGTTCTCGTTTCAGGAAGGTAAACCGCTTAGGAATCGAGTTAGATG
AGGATGCCTCGCACCTCTCGTGCTCCTGCATACCGTTAAGGCACAGGGTTAAGGTGCAG
GCTGCTCCGAATCTGTTGCGGTGCGGTGCGGTAAATGTTATTTTTGTGTTTACGCGAGCTGAA
ATATCTGTATATTTTTGTTTTAAATAGATTTTAAAGATTGATAACTGTTCTTGACGATTT
TTCAAGAAAGGAGTAAATTTCAAGAAAGGAGTAAAGTGACTTATATCAATGACAAGCAA
CGCGCAAGTGACAAGGAAAATCTACTTAAATCTAAGGAGGCTTCGAATATCATAA
ACCAATCAGAAACATAGACATAAATAATTTGTACAAATATAATCCTCTTATACAATTTAT
TGCACAGTTGATTATGCTTATGGAGCAAGCGTAGGGTGGGCACCTGCTGCCCCACGCGT
TTCATATTTCAAGGCGCCTGAAACCGTGTGGGCATAAATGCCTACCTACATCCCAAAA
AACAAGCGCAGCTCGCTGTGTAGGGTGCGAACTTTCGGCAGGTAGACACGCAAGTTTAT
ATTTTCAAGCTGAGGGATGCTTAAAGAAAGTACAAAACATTAAAAATAAGGGGCTGTAC
TAGATTAGCCCTTAAATCCACCAATCCCGCAAGATTTTAGCTGTCGGGACGGTGTGCC
GAAGTTAAATCGAAATTCGCATTCTTTCAAGAACAGCGGGAAGATTGGGATCAATTCC
GTTCTATTTGCGCAAGACGCGTTTTCGCTGATTCCAAAAGTTCTCAATGCCGTTTATGTG
GTTCTGACGGTCAGCAAAATCCTTGGAAATGGTTGATGCGGTAATGGATAAAACCGCTTAC
GTCCAACCTGTGCTAATGCTCAGGCTGTGCGGTATAAACAATGCTGTCCGGCATGATTTT
CTGTTTGATAACAGGCATTAAAGTATCGGACTTGGCATTATCTACGACAACGGTATAGAC
CCGTCGGTTACGTTTCAAGATGCCGAAGACAACCACTTTTCTGCGGCACCGCGACCAAG
TTTGCCTTTACGCCGTCCGCGCAATAGCTTTCGTCCAACCTCGACAGAGCCCTCGAAAAAC
CTCATTGGCAGCCAAGGCCAGATAATGGCTGATGACCATACGGATTTTGCGGTAGAACAG
GACTGCCGAATTGGGATGGATACCCAAAATATCGGCAGCAGAACGGGCGGTAACCTCGAG
TACAAAAAACCGGAGCAGCTCTTCTGTACTTTTTCTTTAATTTGCAGTGTGTTATCTT
CATATTTCCGGGGTAACATATCTGCTAATCTAGTACAGCTCAAACAAAAAGAGAAATTT
TTAATTTTCGCTAAATCGCATAAAGATTAAATCAAGAGTATCATTAAATGATATGAGTGAGC
ATCTATAATGCCAAGAAGAGTTGTTAAGACATAACGATTATTGAAATAGATTGTAAATA
GATACCTAGATAGTCTGAAAAACGGATTGTGAAACTTTTTATTACGCGCCATCATTTGA
AAATGAAACTTAAAAAACACTTATCATAATAAATATTTTCTTTACGTTGTTTGCTAATAA
ACTCAGTGCAATATCAGCGCAATATTTTATGGAAATTTTATGGATAACAAAAAGAATTT
ATTAATAATTTAACAAATAGGTATATGTGGATCTATCCATTGGTCTTAAATATTCTATTT
CTACCTTTTACCAGTCTACCAATCTTTTATTTGCGCTTGGTGTGTTGTTGCTGCTG
GTTAGAAAAATGCAAGCTTAGATTTTAAATTACAAAATCATATTGTATTGTTAAATATA
AAAAGTGCTTGGGCAGATAAAAAAGTATTTTGTATTAGGATAGTAGTGTATGTTGGCA
GTAATGGAAATATGGATGTGTTTTATTTCCGAATCATCAACGTGGGTATGCGGTGCTTTT
TGTTTAAATAGTGAAATATTGGAAAAAATTTTTCGTGGCTTGGTTATTCTGGTAGTTTA
TATTTTTTATTTATATTGATGATTGATCTCAATAAGTTAAGAGAGAGTATTGAATTTCA
TTTTTTGTTTGACTTAAACTCAAGGAGAGTAACAATGATTGGTAGTGGTACTAAACA
ATGCAAAAAATTTCTGCGTGTGATGGAAAAATACCACGCTACGATCCCCCTCGCCCTAGA
CTTGACGCGCAGCGCATAGAAACAGTCACCGCCAAAGGCTTTTCAGGCAGCCTGAAGAC
TGAGAGAGTGAATACGATGAGTATACACTCTATGCCACTAAATGATATTCACTAAATCA
TACCAGCTATATTTTATTTAGACATATGAAAAATAAAATTTTACTAGTATTTA
TAGTTTTACATATAGCCTTGATAGTAATTAATATAGTGTTTGGTTATTTTGTGTTTTCTAT
TTGATTTTTTTGCGTTTTGTTTTTGGCAACGCTTCTTGTGCTGAAATTTATTTATTTT
TAGAAAAAACATAAAAAACAAATTTATTGTTTTTATGCGGATTCTATTATATATGGA
TGGTAATTCATATATGATATGATAAATAAATAAATTTTATAAATTTGAGCATCAAATAAAG
AACAAATATATCCTCGATTACTGGGGTGATAAAACCACATGATAGTTATAAATTATGTTT
ATGACTCAAATGGATATGCTAAATTAAGAGATAATCATAGATATGGTAGGGTAATTAGAG
AAACACCTTATATTGATGATGCTGATGTTAAAAATAAATCCATAAGATTAAAGCT
TGGTTGTGTTATTCATTCATGCTGCTCCATGTGCCAATTTTATAAAATTTGCAAAAAAAC
CTGTTAAATTTTATTTTATAATCAACCTCAAGGAGATTTTATAGATAATGTAATATTTG
AAATTAATGATGGAACAAAAGTTTGTACTTGTAGATAAGTATAAAACATTTTTCTTA
TTGAAACAGCTTTGATATGATGATTAATTTATTTTATATTAAATTTAATTTGCTTTTAT
ATAGGACTTACTTCAATGAGTTGGAATAGTTTTGGTAATTTTATGAGCGCACGCTCATCC
CGGTTAGCAGAAATTTGGAATATGGTTGCTAATTTAGTTTCTGCAAAAAATGAGAAAGAT
ATCTCGAAACGTAATGAATATTACAAACAGCTGTTTATAGTGCAATTATTAGCATTGGT

Appendix A

-320-

AATTTGGCTAGTAATATTGCACCAGGTAGTACGTCATCGCATATTGTAACGGAACAAAT
GCCTCTGTGATTGCAAGCGTCTCTCTGGAAATATATCTTCAGCTATTCAGGAGCATAAA
GATGGTAAAGTTAATATCAACCGTTTTCAAAATATTTAGCGGATTATATTTCATTGGGA
GGGTTAGGAAGTACATTAAATAGAGAAGAATGGAATATGCAGAGTTGGGGGATTCCATTA
GCAATTGCTGGAGATATAATTGCAGCAACGGCTATTGCCACAGGAGATACTGGTACGATA
TCTACAGAGGAATTTATAATTTTGACAACTGGAAGGTTTTGGGTATGAGCTATTTGAA
GACTGGTCTCGTTGGGTATACGACTGGCTGCCGACGGCTGGAATCTGTGGAAAGAATTG
GACAGAAACCGTTGAGGCCAATACCACATCTACGACCCCTCGCCCTAGACCTAGACGGC
GACGGCATAGAAACAGTCGCCGCCAAAGGCTTTTCAGGCAGCCTCTTCGACCATAACGGC
AACGGCATCCGCACCGCCACTGGCTGGGTTCTGCGGATGACGGTTACTCGTCCGCGAT
TTGAACGGCAACGGCATCATCGACAACGGCGCGGAACCTCTCGGCGACAACACCAAACCTG
GCAGACGGTTCTTTTGCCAAACACGGCTATGCAGCTTTGGCCGAATTGGATTCAAACGGC
GACAACATCATCAACGCGGCAGACGCCGATTCCAATCCCTGCGTGTATGGCAGGATCTC
AACCAGGACGGCATTTCCTCAAGCTAATGAATTGCGTACCCTTGAAGAATTGGGTATCCAA
TCTTTGGATCTCGCTATAAAGATGTAAATAAAATCTCGGTAACGGTAACACTTTGGCT
CAGCAAGGCAGCTATACCAAAACAGACGGTACAACCGCAAAAATGGGGGATTACTTTTA
GCAGCGGACAATCTGCACAGCCGCTTCACGAACAAAATGCTATCCATTAGCCATGTTTCGG
GAAAACACGATTTCCTCGTTTGTTTTAGGCTGTCTAAACAAATAACCATAAATGTATATC
ATTATTTAAAATAAATAAAGTATTTAACTATTATTGACGAAATTTAGAGAAAGAGTAG
ACTGTCGATTAAATGACAAACAATAGTGTAGAAAGGAAATATTACTATCCGAGCACAGAG
CATATTTTAGGTAGCCTGTAACCTGTTCTGCTGGCGGAAGAGGATGAAGGTTGACTTACC
CGAGAATAAATGTCCTGTGTGTGATATGGATGCCATGCCGCGAAGCAATTGATGCAATC
ACGGCAGTCCTACTTGAATGAAACCTGTCGTTGCAGAATTGAAAACGCTATTTTAAAGA
AAGGATAAAGGGAGAAAGAAATTTTGGTTTAAAGTGCATGAAACCGTGTGGAAATAAA
TGCACACCTACGATAATTAATAATTTTCGTTTTTTATTCTACAAGCTATTTATATATGAT
TGCTAAAAGTTTATTTTTTAGATGCCAAAAATATATTTTATATACCTTCATATTGTTTAT
ATGTCCTTATTTTGAATATATCTTACGATGGGAAATATTATATATTTTATAATAAATTT
TACTCATTTGCTAATATGTCATGGAATATTACTTGTATTTTGTAGAATTTTCCATATGA
AAATATTTCCATTTACTATTTTTCTGAACTTTATTAAGTTTATTTTTAATATTTTACCTCT
TATATTTACCATAAGAGAGCTAATTGATTATATATATTGAGTCGATAAATTAATTTATT
CTTAATTTTAACTTCTACGTTATTTTTTAAATTTACTTGAAAGGAAAGCAGATATGACA
TCTGCAATTTTAAATATTACGGTTTGGAGATGTGAAATTAACACCTATTCACCACTC
TTGGGATATAAAGCTTGGGATTCAATTTATTGGTTCTATTCAATCCTTATCTGATTTAATC
TATAATGTGGATAACAATAAGAAATAAATGGAATTAATGTTAATAATGCTATTCAAGCT
GCAGATAGCTTTTTAAGCAGTAATTGGAAGAGATAACAAAATAACAAAATAACAAAATAA
CAAATACCTGCTTCTTACTTGCATCCTTCGATAACATTTTTTAAATTTAAGAAATGTATC
TCGAGATATACGAGAAACAGAAATTTAAACCTAATGATATTCACAAGCAATTGGTGA
TATATTCATTGCTGCTGGTGTATGGATTACAATATATAAAACAACAACAGAGGCGATGGC
TCAAAGCAAATTTCTACCAACTAAATTAATAAATGCTTTAAATGATGTCCTTAATCTAG
AATGCTAAAATCCTCTACTGTTTTACAGCATGAATTGAATTAATAAGGATTATGGAAC
GAGAGCTTGGCGAATCTATAATGAATATAGATGATTTTACACCAAGTAAGATAGCAAC
TTTTTTGCGGATCCTGATACATACAGCAATGTATTAGAAGAAGTATCTAGGTTTATATAT
TCCTTAGTTCCTGATGATGCAACCCCTTGGAAGGGGGCGAAGATTATATTGGACGAGGG
ATAAGTGAATGGGGAGAGTTACTGGAAAAATGGTATAAACAAAGATTTCTCCCTTATCTT
GAAAAGAATGGGACCAATTTCCGAAATTTGAAGATTGGCTGCCTGAATTCCTGAATGGG
CAAGAGAGTGGTTGAAATTAGCTCTCAAACGTTACGGCAATATAACGTTTACGATCCCC
TCGCCCTAGATTTGGACGGCGACGGTATAGAAACCGTTGCCACCAAGGCTTTTCAGGCA
GCTTATTTGATACACCAACAACGGCATCCGACCCGCCACGGGCTGGATTGCTGCATATG
ACGGTTTTCTGTGCGCAATTAACAGTAACGGGGGCATTATTAGCACGACAGATACCA
TATTCGAATCTTTGCATACATGGCTTGATCATCAACCAAGATGATATTTCCCAAGCACAG
CATGATGCATGCCATTGAAAAATATAGAAAATTAATGAAAGCTTAAATGGATATTGAAA
TGAATGATCACATAGTACAAATTAAGAAGGTTTCGGGCTAGGTAGGATATTTTTTTATT
CGTATAGCAAAATCATCTATAATAATTTTTCTTCGTATGTTGTTTATTATATAATTTACA
ATTATCAATTTAATTACCTTTTCGCTTTAATTTATTATTACCAATATTGTGCAGTATAT
ATATGTTTATATTTTTTAGGGAAAACTAAGGATACATTAAACGACAGAGCGAAGAAAAA
AATTTTTTAATTCATTTTTCCACTTAGAATCTAATGATAATAGGTTCTGAGAAAAAGA
GGTTAGGCATCGGTAGTTTTTTATTGCTAAACCTACTATGGATTATTTGGTGTCTTATGA
TTCATAGAGAACAAGTCCCATTAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TATTTTTTTTATTATGTGATTTTGTTTTATTATTGAATGTTTATGTTTATTTTTTTAAAT
TAAGAGAGGCTTAATATGGTTAATCAAATCAAATCTGATAATAATTCAGTTTCTATTGAA
TTTATATAAGATTTTATAACTGCAAGTACGGATGTAATTAATCTGAGTTACGAAAAATTT
CGTAAAAATTTTTATACAAATGTCAACTGATTCTACCAATTATGCAGCCAAACATGAA
AGTTTAGGAAAAATCGGTACAACGTGAATTACAAAAAACACAAAGTCAGTTGAGACAAGTT
GTAAGAAAAATGCAGAGTAATATAATAATAATAATAAAGCAGAGTAGCAGAAATATCT
TTGTTAAGGCAAAATGCAGGCAATTTTCTCGAAATATGTAACAAAAATCTTGGTAAAC
AGCAACACTTTGGCTCAACAAGGCAGCTACACCAAAAAAGACGGCACAACCGCGCAAGCA
GGCGATTGCTGTTGGCTGCTGACAACCTGCACAGCCGCTCACGGACAAAATGCTATCC
ATTAGCCATGTTTCGGGAAACACGATTTCCCGTTGTTTTAGGCTGTCTAAACAAATA
ACCATAAATGCATATCATTTATTTAAATAAATAAAGTATTTAACTATTTTTGACAAAAT
TTTAGAAATAGAGCTAGAGTTTTAGTTAAGTAGAAATTGATAGTCTTCAAGGGAAGTAT
TCTCTATGTTGTCATTAAGGGGCTCGATAAAGCTATTATTCATTACTATGGACTTTTA
TTTCATTATTTTCAGGCGGAAATCTCATAGCCGTTTTGAATTTTTCTTCTCTTATTAAT
TATACAAATAATTAGTATATCTGATATGGATTTTTTGGAAATTTTTATTATGTCTGCAT
TTAGAAAAATATTATTAATAATATCTTGCTATTGATTGCTAGCTGCAGTTTTGTTGAAA
CTATTTTTTATATGGCTATTAGCCGAAACCTGTTGTGGTAGACTTCTCTCTGGTAAAA

Appendix A

-321-

AAACAAAAGATCTATTGAACTCAAACAGAAAATTGGTAAACCTTATGCAATATCGTTAG
GAACTAATTTTATACATTATGATCCAAAACAGGGGAGAGGTGGATTGATGATAAGTTAA
ACTATCCATATAATATATCGGTTAAATATTTAAAGTGGAAGAAGATGGTAAAAAACTTA
TTATAGATGAGTTGCTTACAGAGAGAAGTAGAAAATTAGGAGGCGGAGTATTTGGAGCTG
GGGGAATAACAGTATGCTATTTTATGATTTTATTTGCCGGAAGGGGAATATTTATTTG
AGATTTCTGATAATAGTGAATATATCCACTTTACGATGAAATAAATAATTCTATAAGAA
TAGTAGTTAATGCACGAATTCAGTAAATTTTCTAGAAATGTGGGGTTACTTATGGCTGA
TTATTATGCGATAACTGTAAAATTTGCGAAGCAGGGTACGCCACTGAAACAAGAGGGGGT
GTATCCAAGACGGGTACGTTTGGGTTGAACTGTATTCGGCTAGAGATAAAAAAATCGGGG
CTGTACTAGATTAGCCCTAAATTCCACACCAATCCCGCAGGATTTTAAGCTGTTGAGACG
GTGTGCCGAAGTTAAATCGAAATTCGCATTCTTTCAAGAACAGCGGAAAGATTTACGAT
CGATTCGGTTGTATTTTCGCAAGACGCGTTTTCGCTGATTCCAAAATTTCTCAATGCCGT
TAATGTGGTTCTGACGGTCTGCAAAATTCCTGGAATGGTTGATGCGGTAATGGATAAAAC
CGCTCAGTCCAACTTGTGCGAGCTGCTCAGACTATCGGTATAACAATACTGTCCGGCA
TGATTTTCTTTTGTATGACAGGGAGTAACGTTTCAGACTTGGCATTATCTACGACAACGG
TATAGCCCCGTCGGTTGCGTTTCAGAATGCCGAAGACAACCACTTTTCCTGCCGACCGC
GACCACGTCGCTTACGCCCTTCGCCGTAAGTTCGCTTTCGTCGGCTCGACAGGGCCCT
CAAAAACCTCATCGGCAGCCAAGGCCAAATGATGGTTGATAACCGTGCGGATTTTACGGT
AGAACAGTACTGCCGAATTTGGGATGGATACCCAAAATATCGGCGGCAGAACGGGGCGTAA
CTTCCAGCACAAAAAACGAGCAGTTCCTTCTGTACTTTTCTTTAATTTGCAAGTGCG
TTATCTTCATATTTTCGAGGGTAACATATCTGCTAATCTAGTACAGCCCCAAAATATACC
AAAAACAGCAAAACAAATTTGAAGGATAGGTATAGGCTTTGTAAAGGTAAATTTGTAAAA
AAGCAGTTTTTTAAACGAATGAACCGCTTCGGGCTGAAATATATGCTGATGCCCTGTCC
TTCCCGTATATCTTGTGTGTTGTCAAAGTGCAGGCTGCTTTGAAATCGGTATTTGCCATCT
ATGAACCACCACTTTGTTTTATTTTCAGCGGGCTTGAGATGTGTATAAGAATATTGTTTTG
AATAAATTTAAAAAATGATAATCGTTATTGACGATTTTAAAGGAAAGCGTAGAGTGCC
AATTCATGAAGCAATACCGTAAGTAAGTAACAATGAAATATCTACTGCTGGGTATAGAGCA
TATTTTCAACCCGTAACATATTCTGCGGAAACAGAGAAAAAGTTCTCTCTATCTTG
GATAAATATATTTACCCTCAGTTTGTAGTTAAGTATTGGAATTTATACCTAAGTAGTAAAG
TTAGTAAATTTTAACTAAAGAGTTAGTATCTACCATAATATATTTCTTAACTAATT
TCTAGGCTTGAAATTTATGAGACCATATGCTACTACTATTTTATCAACTTTTATTTTGT
ATTGGGAGTGTTTTTACTATGACCTCATGTGAACCTGTGAATGAAAGACAGATCAAAAA
GCAGTAAGTGCGCAACAGGCTAAAGAACAAACAGTTTCAACAATCCCGAGCCAATGACA
GGATTTGAACATACGGTTACGGTTGATTTTCAGGGCACCAAAATGGTTATCCCTATGGC
TATCTTGACGGTATACGCAAGACAATGCCACAAAATGGCTTTCGGACACGCCAGGGCAG
GATGCTTACTCCATTAATTTGATAGAGATTAGCGTCTATTACAAAAAACCGACCAAGGC
TGGGTGCTCGAACCAATACAGCAAAACAAAGCGCACTTTATCCAATTTCTACGCGAC
GGTTTGGATAGCGTGGACGATATTGTTATCCGAAAAGATGCGTGTAGTTTAAAGCAGACT
ATGGGAGAAAGATTGCTTACTTACGGGGTTAAAAAATGCCATCTGCCATCTCTGAATAC
GAGGCTTATGAAGATAAAGACATATTCCTGAAAATCCATATTTTCATGAATTTTACTAT
ATTAAGAAAGGAGAAAATCCGGCGATTATTAATCTCGGAATCATAGGTATGGAGAG
AACGATTACAGCACTAGCGTAGGTTCCCTGTATTAACGGTTTCACGGTACGGTATTACCG
TTTATTCGGGAAAAGCAGCAGCTCACACAGCAGGAGTTGGTAGGTTATCACCACAAAGTA
GAGCAATTTGGTACAGAGTTTGTAAACAATCCAAGTAAAAAATAATGGGGCTGTCTAGA
TAACTAGGATAAACTCGATTTTACTAATTGTTTTAAATGGAACAAGAACTTTTATCTCA
CTGTTGTTAAACGCCATTTCGCACCTCTTAAATACAGCTCAAAATGCGCTTTGGGAATG
CCGTTAAACTTCGGTAAATGACGTTTTGCTGTTTCCAAAAGTTCTCAATTCCATTAAATA
TGGTTTTGTCGTTTCAGCAAAAATGTGTGCTGTGATTGATACGAAAACGAAGTTTCAGCGAA
GCTAAATTTGGCTAAATTCGCGCACATCTAATACATCATAGCTACGATAACAATCCGTATA
AATAATGCTGTACGGTTTCACTTGTTCACGGATAATAGGAAATAAAGTAGCGGTTTGAGT
ATTCGGTACTGTAAACGTATAAACCTTACCATTTCGCTTCAAAAGACCGGAATACGGCGAC
TTTACCAGGCAGCACCGCGACCGCTTTCGCTTTCGCTTGTCCGCCAAAATAACTTTTCATC
TGCTTCTACTTCGCCATCAACATTTCCAAATGCGGACTGTTTTGATAAATAAGTAATCG
TAAACGATGAAATAATAGCTGCGGTATTTTATTAACGCTACTAACTCTGCTGCCGT
TCTTGCACTTACACCTGTGACAAATAGCTCAATGAGTTTATTTTGTATTAAGTGGCTTAG
ACGACTTTTCTCATAGGGATAATCTAACTTAATTTGAATTTCCCTAGTTATCTAGGAC
AGCCCCATTCTTTAACTAATTTCTAAGCTTGAATTTATGAGACCATATGCTACTACCAT
TTATCAACTTTTTATTTTGTGTTTATTTGGGAGTGTTTTTACTATGACCTCATGTGAACCTGT
TAATGAACAACCAAGTTTCAACAATCCCGAGCCAATGACAGGATTTGAACATACGGTTAC
ATTTGATTTTCAGGGCACCAAAATGGTTATCCCTATGGCTATCTTGACGGTATACGCA
AGACAATGCCACAAAATGGCTTTCCGACACGCCAGGGCAGGATGCTTACTCCATTAATTT
GATAGAGATTAGCGTCTATTACAAAAAACCGACCAAGGCTGGGTGCTCGAACCATACAA
CCAGCAGAACAAAGCACACTTTATCAATTTCTACGCGATGGTTTGGATAGCGTGGACGA
TATTGTTATCCGAAAAGATGCGTGTAGTTTAAAGCAGCACTATGGGAGAAAGATTGCTTAC
TTACGGGGTTAAAAAATGCCATCTGCCTATCCTGAATACGAGGCTTATGAAGATAAAG
ACATATTTCTGAAAATCCATATTTTCATGAATTTTACTATATTAATAAAGGAGAAAATCC
GGCGATTATTACTCATTTGGAATAATCGAGTAAACCAGGCTGAAGAAGATAATTATAGCAC
TAGCGTAGGTTCCCTGTATTAACGGTTTTCAGGTCAGTATTACCCGTTTATTCGGGAAAA
GCAGCAGCTCACACAGCAGGAGTTGGTAGGTTATCACCACAAAGTAGAGCAATTGGTACA
GAGTTTTGTAAACAATTCAGTAAAAAATAATTTAAAGGATCTTATATGAATGAGGGTG
AAGTTGTTTTTAACACCAGAACAAATCCAAACCTTTCGCTGGTTATGCTTCCCGTGGCGATA
CCTATGGCGGTTGGCGTTTATTTGGCTAATTTGGGTGACCGTTATGCGGATGATGCTGCTG
CAATTGTGCGTAAGGATGCAAACTAAATGGTTTGAATTTATGGATGAAAAAGGTGTGG
AAAACCTATGGGATGATACGGTCCGTTAAAAAGACCCGTTTAGAGAAATTTGATCGGGTTG
CACTGCAACATTTTCAGGCAATATGCGCTCTAATTAATCAAAATAATGGTAGATTACCCA

-322-

ATAC TAGTGA AATTGAGAGAAGTTACTATAAAGCCGTTACCGATAATGGCGTTTCTTCCA
GTGCGAGTATTGATTAGTTATTAATAGCTTCATCTCCGATATGGCGGATGTTATGGG
CATTAGGTTTGGGGATAGAAGCCGACGTAATCCCAATGAGCAAGCAATTAATCCGA
ACGGTAGCGAAAAGGGATAATAGAAAGCAGTTAATATCTGCTTTAGATAAAGGATTGTATG
GATCTTTTAAAGAGAAGCATTTTACTCTTTTACAACTCTGTGATGATGGATGTAACAAAGT
TAGGCTGTTGAATATACAATAGATGGTTGGCAAAAATTTGAGGTTGGGTAATGGGATAA
TCAATGATTATATAAAAGTGTGTGAAAAAGAGAGCTGGCATGGAAATTTAGATCGTTA
ATAATTAACATCAAGCAAGGAAATGAGCTTTTAAAAATGAATCAATAGCTTGGTTCATG
ATATGAAGAGCTGCTGGCAAGGAATTTGGAGATGACTTAATACACAGCTGGAATAATCTCA
CTCAGGCTGCCAAATAATCTATAATGACATAGTAGACATACTAGTCAAGGAATAGAAA
AAGGTTCTCAAAGCCATTAAAGAAATGTCTGAAAAAATGAAAAATGCTGCTCCGATTGG
CTGACGGTTTCAGCAGAGAAGCTTAAACAAAGTAGTGAAGATTTGGCTCAAGCGCCAAAG
AAGCATACGAAAATGCCAAATCCACAGCCGAGAAGGCTGCTCAAGCAGCTCGAATAATTT
TTAAGGGCTTGGCCAGTTTAAAGATCTGGCCGAAAAAATTTAGAGATCTGTTCCCAAT
CGGAAGGCTGGATCGATGATGGTCAACCAATGTGTTAGCTCTTGGGTTAAAGAACTAAAA
AACGCAATGCGAAATATCATGTCTACGACCCCTTGCCCTAGACCTAGATGGCGACGTA
TAGAAAACCGTTGCCACCAAAGGCTTTGACGGCAGCTTATTTGATCACACCAACAACGGTA
TCCGCAACGCCGACCGGTTGGGTTCTGCCGATGACGGTTTACTGCTCGCGATTGTGAACG
GCAACGGCATCATCGACAACGGTGGCAAGTCTTCCGGCAGCAACCAAACTGGCAGCG
GTTCTTTTGGCAAACACGGCTACGCGGCTTTGGCCGAATTGGATTCAAACGGCGACAACA
TCATCAACGGCGGCAGACGCCGCAATTCCAACACCCTGCGTGTATGGCAGGATCTCAATCAGG
ACGGCAGTTTCCCAAGCTAATGAATTCGCTACCCCTTGAAGATTTGGGATTCCAATCTTTG
ATCTCGCCTATAAAGATGTAAATAAAAAATCTCGGTAACGGTAACACTTTGGCTCAGCAAG
GCAGCTATACCAAAAACAGACGGTACAACGCCAAAAATGGGGATTGCTTTTATGAGCGG
ACAATCTGCACACGCGCTTCCAGTAAAGACAAGTGAATCTACTGCCACAGGCAAAAGCCG
CCAACTCTTGGCGGCAATGGCCGCTTGGCGATTTCGCGCAAGCTGCGCGATTGTCGCGG
ATTGGCCAATATGCTGAAAGCTTATTCTGCGCGCGAAACTAAAGAAGCAGATTGGCAT
TGTTAGATAATTTGATTACAAAATGGGCGGAAACCGGATCGAATCGGGGCAAAAAATCGC
CAATGCGACCTTCAACCGATTGGACGCAACGGCTAATGAAGGTTTGCAGTCAACCAT
CCCAAGTAGCAACTAAAAAAGAACGCTTTAGTTTCCCTTTCTGTATAAAGCTAAAGCAG
CTATTGACGCGCGCCGCGACCGCATTGCCTGCTTGATGCTTACAGCGGGCAGGATTCCA
ACACACTCTATTACATGAGCGAGGAAGATGCGCTTAATATCGTCAAAGTAAACACAGTA
CATACGACCATCTGCCAAAAAACATCTACAAAACCTGTTGTTCCAAACCGGTTTGACG
CATATTTGAATCAAAATCAGTTTCAAATGGAAATGATAGCTTCACTTTGGATTTTAGTG
GTCTTGTTCAGCACTTAAACCATGTCAAAGAACAATACTCCGAAAAAGCTTTTGTGGATT
TGGCCGAGATGCTTCATATGGCGCAACTCTGTTCTTGGTATGAAGCCGAAGCATTAAGA
CCGATTATGTGGAGGAGGCAAAAAAAGCAGGTAAATTTGAAGATTACCAGAAAGTGTGG
GTGAGGACCGGTTTCGCTATTAGCTAAACATCGGGTACGCAAGCAGATGATATCTGCG
AAAATGTAGGCTTTGGTCTATAATAAAAAATGTTCTTTATATGGTAATGACGGCAACGCA
CTCTAATCGGCGGCGCCGGTAATGACTATTTGGAGGGCGGCAGCGGTTCGGATACTTATG
TCTTCGGCGAAGGCTTCGGTCAGGATACGGTCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGGAGTTACCGTATCGCAGAGATCTATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCGATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGACGGTAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATACGGTCTATAATTACGATACGCTACCGGACGCG
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGGAGTTACCGTATCGCAGAGATCTATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCGATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGACGGTAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATGCGGCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGGAGTTACCGTATCGATGAGATTCATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCAATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGATGGCAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATGCGGCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGTGTACCGTATCGATGAGATTCATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCAATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGATGGCAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATGCGGCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGTGTACCGTATCGATGAGATTCATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCAATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGATGGCAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATGCGGCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGTGTACCGTATCGATGAGATTCATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCAATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGATGGCAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATGCGGCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGTGTACCGTATCGATGAGATTCATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCAATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGATGGCAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATGCGGCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAGAGG
GCAACCATCTTCTTATCAAGGCAAAAGACGGCAGTGGACAAGTGAAGTGTTCAGTACTATT
TCCGACAGCATGCTCGAGTGTACCGTATCGATGAGATTCATTTCGATAACGGCAAG
TACTGGATGTTGCCACTGTCAAAGAATGTGTACAGCAATCCACCGACGGTTCGAGACGAT
TGTATGCCTACCAATCCGGAATAACCTTAAATGGCGGATTGGGCGATGCTATCTGTACG
GTGCGACGCGGGATGACCTGCTGAATGGTGATGACGGCAACGACAGTATCTACAGTGCCA
ATGGCAATGATACGCTCAATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGCAATGATCATTTGAACGGCGAAGATGGCAACGACA
CTCTAATCGGCGGTGCGCGTAATGATTACTTGGAGGGCGGCAGCGGTTCGGATACCTTATG
TCTTCGGCAAAAGGCTTCGGTCAGGATGCGGCTATAATTACGATACGCTACCGGACGCA
AAGACATCATCCGCTTTACCGACGGTATTACGCGGATATGCTGACTTTTACCGAG

Appendix A

-323-

TGTATGCCTACCAATCCGGAAGTACCTTAAATGGCGGATTGGGCGATGACTATCTGTACG
GTGCCGACGGGGATGACCTGTCTGAATGGTGATGCAGGCAACGACAGTATCTACAGTGGCA
ATGGCAATGAACGCTCGATGGAGGAGAAGGCAACGACGCCCTGTACGGCTATAATGGTA
ACGATGCACTGAATGGTGGCGAAGGCAATGATCATTGAAACGGCGAAGACGGTAACGACA
CTCTGATCGGGCGTGCAGGCAATGATTACTTGGAGGGCGGCGAGCGGTCGGGATACCTATG
TCTTCGGCGAAGGCTTCGGTACAGGATACGGTCTATAATTACCATGTGGATAAAAACTCTG
ACACTATGCACCTTAAAGGATTTAAAGCAGCAGATGTTTATTTATCCGTTCCGGAAGTG
ATTTGGTGCTTAGCGCTTCTGAACAAGACAACGTACGTATTTCCGGATTTTCTATGGTG
AAAACCATCGTGTAGATACATTTGTCTTTGATGATGCAGCTATCAGTAATCCAGATTTTG
CCAAGTATATTAATGCTGGCAATAATTTGGTACAGTCTATGTCTGTGTTTCGGTTCTAATA
CTGCTGCGACAGGAGGAAATGTGGATGCCAATATACAATCCGTACAGCAGCCGTTATTGG
TAACGCCATCTGCATAAGGAGCCTAATCACATTCATGGCTTAAACTGAAAAACAGCAATC
AAGTTTATTTTATTGCTGTGTTTTCTTAAATATTGGGATAAGGGTCGTATTTTAATTAACC
TTAATCGGTGCACTTCTAGCAATATAGTGGATTACAAAAACAGTACAGCGTTGCCTCG
CCTTACCGTACTATCTGTACTGTCTGCGGCTTTGTGCGCTGTCTCTGATTTTGTTAATC
CACTATAATTAATATGACTTTGCGGCGCTTTTGCCATTGCGTAATAAACGATGGGGAAG
TGATGATAAAACGCTGTGTGTAACCTATATCAGACGGCATTGTTTTCTGTTGACGGCCTC
AATCCAAAATTTTGGCGACGATTTGCGCCACGTCTTTGACAATCCTTCTGCGCCCGAA
TGCGCTGCAATGCTTGTTCACCAAGTTTTTGCGGTGCGGCTCGAGCTTGTGACAGAGGT
TGAACGCTGCACTAAGCGGGCGGCGACCTGCGGGTTGAAGCGGTGATTTTCGATGACTT
TGTGCGCGATGAAGCGGTGACCGGCTGCGCTCTTCTGCGTGGAAATGCGGGACGTTGCGGC
TGAAGTGCCTGATGAGCGAACGGGCTTTGTGCGGTTTTGAGGCTGAATTCGGATGCT
GCAAGGCGGTTGCAACCTGTTGACAGGCTGCTGCGTGGCGGCTTGAGCCGACGAGGGCAA
AATATTTGTCCATCACCACGCGCTCGTCTGAAACTTGTGCGCAACTGCGCCAGCAGGC
GGTTGCGCGTATCGCTTTCTGTTGCGGTTGACGGCGACAGGATGCCCCATTCGTGGGTCA
TGTTTTGCGCGCTTTGCGCGTATTTTTCGGCAACGGTTTCGATGTGCGCGGGGTCGGCGC
GCAGGACAAAGCGCGGCGAGCGTTGCGCAGCGTGCGCCAGCGCGGCTTCGGGGCTGT
ATTCGTAGCTTTGGTTTTCTGCTTCCGCGCTGACGGTTCAATTCGTGCCATTTTCGGCA
GGAAGTGGACGGCAAGCCTATCCAAACAGGCTTTCGCGCGCTGATGGTAGCGCAGCGGGT
CGATGTTTTCTGCGCGCTCCACAGCTCGGCTTCGGATGGCAGCCCCAAAGCAGGGCTT
TGAAGCGTTTGTCTAAGAGGTCGTCTGAAATGACTTTTTTCGACGGCGGCAAGCAGTTTTT
CGTGTTTTGCGCAGCTCAACGCGCTCTGAAAGCGTGGCAAGGTTGGCGGCGACGGCGCGG
GGTAGAGCGTTTGGGCGGCTTCCAGCGCGTGAAGGCGTGTGTCATGGGCGAGCAGGA
GCAGCAGGTCTCGTCTGCTGTACGGATAGTTAGATGCACGGCGCGCTGAACCCGCGCA
GCAGCGAGGGAACGACGGCTTCGGTTACGCTTCGAGCAGGAAGGCTGTTCGGCTTCGG
TCAGCAGCAACCGGCTTCGGTTCGCGCGTTCGCCCTGATAGTCGAATGCCACCGCTTCGC
CGTTGCGGTTTTCAGCAGCGCGACCTTGACGGGAATCATTCGGCTGTTTATCCGTCATAT
CGGGCGTGGGCGGCGCAGGTTTTGTTGACGGTCAACTCGAAATATGTTTTTCAGACGAC
CTTCCGCTTCCAAAACGGGCGTGGCGGCTGCGGCTGACCAAGCGCAACTGGTTCGAGAT
TGATGCGCTTCGCGTCCGCCATCGCCGCGCGGAAATCGTGCAGGTAACGGCTGTCCGT
CGTGGCGTTGGAATAGAGCTTCATGCCCTTCTGGAAGCCCTCTTCGCGGAGCAGGGTGT
GATACATCCGCACTACTTCCGCGCTTTTTCATAAACGGTCATGGTGTAGAAATTTGTTCA
TCTCCTCATAGTGGCGGGGCGCACCGGATGGGCGGTGCGGCTGCTCTTCGGGGAAC
GGTGCTGGCGCAGCAGCGGATGTTTTCGATGCGCGCACGCGCGGCTGCGCGGTTCGC
CGGAAATTTCTGGTTCGCGGAACACGGTCAGCCCTTCTTCAGCGAAAGCTGGAACAGT
CGCGGAGGTTACGCGGTTGCCCGTCCAGTTGTGAAATACTCGTGTCCGACCACGGATT
CGATGCCCTTCGAAATCGGTATCGGTGGCGGTGCGGCTGTGCGCAAGGACGAACTTGGTGT
TAAAGATGTTTCAAACCGTTGTTTTCCATCGCGCCCATATTGAAATCGCCACGGCGACGA
CCATGAAATATCCAAGTCGTATTCAAACCGAAGCGGTTTCGTCCCATTTTCATCGCGT
TTTTCAACGATTCACGGCAAGCGGACCTTGGGCTTGTCCGCTTCGGTGGTGTAAACT
CGATTTTTCAGCTTCTGCGGCTCATGGTGGTGAATAGTCTTCGGTACCGCCAATTCG
CCGCGACCAAGCAAACAGATAGCTCGGTTTGAAAAACGGGCTTCCCATTTACCCCAAT
GGCGGCGCTCTGAAACTCGCGCGCGTTCGATTTTGTGCGGTTGGAAGCAAAACGGGAT
AGCGTTTTTGTGCGGACGATGGTGGTGGTGAACCTGGACATCACATCCGGACGGTTCGA
TGTAATATGTGATTTTGCAGGAGCCCTCCGCTTCGCACTGGGTAACAAATTCGCGCGG
AAGCATAACGCCCCATCAGCGATTTGTTTTCCGCGGCGAGGATTCGGTTTCCACTTCGA
CGGTGAAGCGTTTCGGACGGCAGCGCCGCAATCGTCAGCGTCTCTCTTCCAAACATAAT
CCGCGCGCGCCCGTTGATTTTTCAGGACAAGAGTTTCGCGGAACCGTCCAAACACGCG
GCTCCCTACCTCTGCGGCTCAACCGTCAAACGCGACTTCACGACGGTTTGGGTTTCAT
TAATATCAAATGTAATCGGTTTTGAGAATATGGTAGGCGGGGCTTTGATAGTCTTTGA
GATAATGCACGTTTTGCTCATTTTTTTCTTTCAATGTTATTTGTTTACTGGAAAAGG
CTTCAGACGGCACGGGCGCATCCCGGCTATGCCGCTGAAGCCGACGCGGCGGACGGG
GCGCGCGCGGACAACCGGTTTGAATCAATCTTTATCCACGCGCGGACAACTCTTCC
CAATGCGGCTTTTCCCGGCTTGTGCGGACAGGTAATCCGCATCCGTTTGATTTCATT
TCGTATTCGTTCAGCTCAGCCTGCCGCTGACCAGACAGAAACGCAAGGTACATCAGATAA
GTGTTTCCGCGCTCGGTTTCGCAATAATTGCGGATTTCTTCAGCTGCCGATGGAAT
GCCTCCCAAACCTTGTGCGGCTCATACCCAGCTTGCCCGGAAACCGCACAGTTTCGCC
ATATCGTCCAGGCGACGTTTTGCCCTCGGCTGGTAAAGCGGAGCAATCCATCAAATCG
CAGTGGCGTTGGTGATAACGGCTGATGTAGTTGTTCCACTTGAATTCGCGGCTGTGCGG
AAATCGCGCTCGCCCATATCCCAATAGCGCGCGGCTTGATGCCGTATATCAGGGAGCGG
TAATGCAGTACGGGACAGTCGAAACCGCGCGGCTTCCAACTGACGAGTTGCGGCGTATGT
TTTTCAATCAATTCGAAAAATTTAGCAATGACCACTTCTCGCGCTCATCCATCTCGCG
ATGGTGGCGACATGTACTTTATCTGCCCCAACGCATGCAGCAGGAAATCGCCACAAC
TGATGAAGATGATGCTGCATAAAATCGCCGCGGCTGTGACGACGGCGTTTTTGTGGGCA
AACAGCACCACTTCATCGTGGGCGAGGACGGCAGCTCGTACAATGTTTCGGATACCC

Appendix A

-324-

TGCACATCGGGTACGGTTTCAATATCGAAAGCCAAAATCGTGGTCATGACAGCACCTTGT
ATTTAAACCGGATGCACCTATTGTGTCTATTAAGGCGGATAAAAAAGAGGCAACCCCC
CACAGGATTGCCCAATCCTCAAAATCAGAGATTACGCTTACAAACAATACAGGCTTT
CGCCTCGGGCTTTACCCGCGTAGCTCAACTCTACGCCGGCAAACCTTCGTTTCACCGTTT
CCGATGAAACCCCGACCAATCGCAAGACTGACCGGAAAATCCTTTTACAGCGGCATTTCCT
GCCTGTCTGTAAATCCATGTAGCGAAATGTACGCCATTTTCTACGCTTTGCCAAGCATT
TTTTACAATATAAATGTCAAACATTAATTTTATAAAATTGCTGAAAATATTAATATAT
GGATTTTATTTTATATTTCAATAAATATAAATTTAATTTTGATTATATTTAAATTT
AAGCATAAAATGTCAAATATTAAGTAACATGAAAGGCATATATTAATATTTATTTAT
AACGCTATGTTTTTAAAGAAAATTAATTTTAAATATATTAAGTAGATTGTCTGCATATAT
CATAGGTTTGGCGTATTCTTCCAAAACCTGCTTCGAATTTCCCGACCAAGTCTTAAAAA
TATTGTTTTTGAGATACCTAAATAGCAGCGATTATCAAATGAAATCTGTTTCATATAATCT
GCCATTTTGCAATTTAAAAAACAAATCAGGAGTTTCGACTCGAAACGCCCTGATATGTTTTG
TAATTTTACGTAGTCACTAGTAAAAATCGGGGCTGCCCTCCGGACGGGTTTTAAACCGTGT
GCAGCCAAAAATATTGTTCCGGATGTTCCGCGCACCTGTCTTCGATAAACGGTTCATGC
GCTGCGCGTCCGGCTTTCGCGTCTTCAACCCGGAAGGATTTCGAAGCAGGGTAGAAATGCA
ATGTAACCGTATTGTCTGCTCGCTCGCGGACGGGAATGGCGGGTATCACTTTTGCAATTTGCAA
GCGCGGCAATGCGGCTCAATCCGGTAATCGTTGCCGTCTGAATACCGAAAAATCCACAA
AAACCGAATCGTTGCGTCCGAAATCCTGATCGGGCAGATACAGAAACGGCGCGCTGCTTT
TGCGGAACTGTTTACGAGGCGCGCGAGCCCTTCGGTGCGCCCGATAAGGAAGACGTTGT
GATAGCGGTTGCGGCTTTCAAATCTGTTTCGTTCCAATATCTTGTTTTTTGATGGGAAT
ACATACTGATCAGCGGGATATCCTGATTAGCGCGTACACCGCCATCTCGAACCGCGTGA
AGTGCGGATACAGGATGATGACTTTTCCCCCGCGCCAGCGCGTCTGTTCCAAATAATGCT
TATTGCGGTAGCCGACCGGATTTCAAACGTCGCGCAGGCGGTACCAATATAAACCGT
ATTCCAACATCAGTTTCGCCATGTGTTTGAATGCTGTTTCAACACGGTTTTACGCTTTT
CCTCACTCCATTTCGGAACAAATTTTGCCAAATGATTTCGCCGATACGGCGCGCGGTT
TGACCGAAGGTAGGCAAGCAACCCGTCAGGTGCGCAATCTTGTGCAGCAGCGCAACG
GCAGAACTGCAAAACATACAGTACAAAAATATAAATTTTCATCTCGATACACATTTTCT
TTTCAGACGGCAAAATACAAATGCGCTCTGAAACTATTGAAACCTGCCGCGTTGACCTG
CATCCCCGAAGGATTGAGTTTGGCGGCAAGCCCGTGGTTGCGTAAGGCGTGGGTACAGCG
GACGGCAAGACCGTCCGCGCATCCGGCTGGGGCTTCCCGAAAGTCCCAACATCTGCAC
CACCATATGCTGCACCTGTTCTTTTGGCGCTTGGCCTTGGCGACTACCGCTGTTTGAC
CTGCAAGGCGGTGATTTCGGAACGGGACGCTTATGGCTGACCAATGCCGCAATGCCGC
GCCCCTAGCCTGACCGAGCATCAGCGTGCATGCCGATTGACGTTGACGAACACCTGTTT
CACTGCCGCTGTTGAGGCTTGTAAACGGTAACGACTTCGCGGATGTGCCGACGATGAC
GGCAATCCTGTCTGCCAGAGGCGCATCGGCAGGCGTTTTGATGCAGCCGAGGCGACGTA
AAAATGATCCCGCCCCCTGACATCGATGACACCGAAACCGTTACGCGACTGCCCGGGT
GATGCTTAAGATACGGACGCTTGCAGCCATATTCAACAAACCGGTGTTGAATCAGCTT
TTACGCAAGGTATTGCGGTTTACGCCCCAGCATACGGATGCTTTGGACTGGTTGCCGCG
CATTGCTCCATCAGCACACAGCAGCGGTTTTTCCACCTGATGCAATACCATATCGTAC
ACGCGCAAGGTTTCGGTCCGTTTCAGGCTTTTGAATATTGTTCTAAATTTTGTCTGAT
CATTGGGAAATATCGGGAAGGTTATGGGCGATGATTGCACTTTCAAAGGATAATCAAGTG
TTCAGAAAGCATTTGGGCGGTAGGCGCACGCCCACTGTGCGTTTTTTCGGCAAGTCTTT
CAAGATAACCTGCAAGCATGTCTGATTGCGCGCGCACTGTCCAAGCGGTGATTTCAC
GACGTGTCTGTTTCGCGCTCGGGCATTTTCGTCGATGTACCAGCCTATGTGTTTGCCTGCGA
TGCGCACACCGCGGTTGTCGCGTAAACCGCGTGTATGGCGCGGATGTGGTTCAAAATAG
CGGCGGCGCATTTTCGCAAACTCAAGGACGGCGGCAAAACACCGTGTTCGGCATAATGTT
TCAAATCGCGGAAGAACACCGGCTGCCCTTGCAGCGCGCGCCCTATCATAATGCCGTCGG
CGGCGGTTTGTGTTGAGGACGGCTTGGGCTTTTTCGCGCGAAGTAATGTCGCGCTTGACCC
AGACCGGGATGTTTCAGACGGCATTTGTTTTCGCGCATGAGTTTCGTAACGCGCTTCGCTT
TGTACATTTGCGTACCGGTGCGTCCGTGACGGCAAGGGCGGCGATGCCGCAATCTTCGG
CGATTTTGGCGATGACGGGCGAGTTTGTATGGTCTGCTGCTGCAACCCAAACGGGTTTGA
GGGTAAACGGGTACGCTGCCGACGGACGCGCTTCAAATGCGGCAACACGCGGCT
CGTTCTGCATCAGCGCGTACCGGCTTGGACATTGCAGACTTTTTAGCGGGACAGCCCA
TGTTGATGTCGATAAGCTGCGGCCCCAAGGCTGACGTTGTAACGCGCGGATCCGCCATCT
GCTGCGGATCGCTTCCGCAATCTGCACGGCAACATGCCGCTTCATCGGCAAAATCGC
TGCGGTGCAAGGTTTTCTAGTATTTCTGAGCGTCGGGTGCTGGTCAGCATTTTCGCACA
CCGCCCAACCTGCGCCAAATCTCGGCAAGTCCGCGGAACGGTTTGTGCGTAATGCCCG
CCATCGGCGCAAGTGCGATGGGGTTGTCGATAAAATAGCCGCCGATGTGCATAATGGATC
CGCGTTTCAAAAAAGTACGCCATTGTACATTTTTTAAGCAGGATTTCGAATCTCCGGACG
CGCCCGCATTTGGTTCGGACACCGTTTTATGGCATAATCCGCACACAGATTCCCTGCCCG
GCCACTCACAGGCGGGGATTTATAGTGGATTACAAAAACAGTACGGCGTTGCTCTGC
CTTAGCTCAAAGAGAACGATTCTTAAGGTGCTGAAGCACCAGTGAATCGGTTCCGTAC
TATCTGTACTGCTGCGGCTCGCGCCTTGTCTGATTTTTGTTAATCCACTATATTTCC
CCGTCTATCGGTTTCCGTTTTAGACGACATAAGGTCTGAAAGAAAGACTACAATTATG
AGTAATCCATTTTCTCTTTAGGTTTGGGTACGGAACCTGTTTCCGCACTGACCGCGCAA
GGTTACGAAACCCGACGCCCATCAAGCGCGCGCATTTCCCAAGCACTCGCGGTCAT
GATTGCTAGCCGCGCGCAACCGGCAAGGCAAAACCGCGCTTATGCTGCCAGT
CTGGAACGCTCAAACGTTACGCCACCGCCAGCCTCGCCCGGATGCACCCCGTGCCT
ATGCTCGTCTCAACCCACGCGCGAATTCGCCGACCAATCGACCAAAACGTCGAGGGC
TACATCAAAACCTGCGCTGCGCCACACCGTCTTGTTCGGCGGTATGAATATGGACAAA
CAGACCGCGGACCTGCGGCTGCGAAATCGTCTGCGCCACCGTCGAGCGGCTGCTC
GACCAGTGAACAGAAAAACATCCATTTGAACAAAGTCGAAATCGTCTGTTTTGACGAA
GCCGACCGTATGCTGGATATGGGTTTTATCGACGACATCCGCAAAATCATGCAGATGCTG
CCCCGCCAACGCCAACCTGCTCTTTTCCGCCACCTTCTCCGCCCGATACGCAAACTG

Appendix A

-325-

GCGCAAGACTTCATGAACGCGCCGAAACCGTCGAAGTCGCGCGCAAAACACCACCAAC
GCCAACGTCGAGCAGCACATCATCGCCGTCGATACCATTCAGAAGCGCAACCTGCTCGAA
CGGCTGATTGTCTGATTGTGATATGAACCAAGTTCATCGTGTCTGCAAAACCAACAAAGC
GTCGACCGCGTAACGCGCGAACTGGTGC GCCGCAACCTGTCCGCACAGGCGATACACGGC
GACCGTTCCCAACAAAGCGGCTCGAAACACTCAACGCCTTCAAAGACGGCAACCTGCGC
GTCTCTGTCGCCACCGACATCGCCGCGCGCGGCTGGACATTGCCGAATGCCCTTCGTC
ATCAATTACGAAATGCCCGCCAGCCCGAAGACTACGTCCACCGCATCGGGCGCACGGGG
CGCGCGGGCGCGGACGGCTGGCGATTTCCTTGATGGACGAATCCGAACAGAAAATGTTT
GAATCCATTAAAGAGCTGACCGGCAACAAGCTGCTCATCGAGCGCATCGAGGGCTTCGAG
CCGCAATGGTGGGAACAGGGCGGGCGCAAAACCGGAAAAACCGAAATGCGCGAACCGAGA
CAACGCAACCGCTACGAATCCGCCAAAGCGCAACGCGAAAAAACACCCGGCCGGAAT
GCGGCAACGATGCGGGCGGGCTTGCGGAAAAATTGCCGACGCGACCGCCGAAGCCGC
CGGGAACACCGGACGTGCGCCCTGCTCCAACCGCGTTACGGCGTAAATAGCCCTGAAAA
TCAAATGCCGTCTGAACATTTCCCGTTTCAGACGGCATTTTCAAACCGGACTGACGCAT
CGGGAGCAACCGCCCGACCGGATAAATTTCTGCCGCAACAGTTTCAGACGGCATTTGC
CGCCTGTACAATATAGTGGATTACAAAAATTAGGACAAGGCGGCGAGCCGCAGACAGTA
CAATAGTACGGAACCGATTTCACCTTGGTGCTTCAGCACCTTAGAGATCGTTCTCTTTGA
GCTAAGGCGAGGCAACGCGTACTGGTTTAAATTTAATCCATTAAATAGTGTATATTAGT
ACGTCTGATATACAGTACCTACGAGGGTGTAAGCTTTAGTTCACATTTAAATGACC
TCTTTAAACCTGTCTTTCCGAGGTTTCTTTTAGGTTGTTGGAATCGTGTGCAGACA
AGGTGTAAATAGTTAACAGCATAAAATAATGCGGTTTTACCGCCCATATATTACAAAA
GCCAAATTTTAAACATATATCTTGATATATACCGGCGTAAACATATACTGGAAACAT
CTTTAAATTTCCGAAATTTAAATATGAGCAACTGGAAACCAATATTCCTATAACGA
TTTACACCCCTGCGCCCAAAACAGGATATTGAAAGCAAAACCATCTGAAACGTTGTAT
AGCCGCCGTCATCCCTTGCCCGTTTAAAGCAGGCGGCAAGTTGATACCGAATCAAGC
CATGCTGATTAACACCTTCTCTGTTATGGAAGCCGTCAGGTTCCGAAATGAAAAACAT
CGTAACCAACCGGAACAGCTGTTTCAATCCCTGCAATGGATACGGAACGGCAAGACCC
TGCCACGAAAGAAGCCCTGCAATACCGCACCGCCCTGTTTGCAGGCTATGAATCACTGAC
GAGCCGCCCTTTATGCACACAAACCGCCATCATGGTCTGCAACGCCATCAAGCACCCCTA
CGAATGGCCATTCGCAAAACAGGCGGCACAGCCCTAAAGGAGGCAACAGCGGAATGT
TGTCTATACCCCGCCGAGGAGAAGAAACCATACGCGGCAAGCTGGCAATTTGGGAGCG
GTTTATTACGAAAGCGGGGATTTAGACCGCTTATCATCATGGCGCGGCACATTACCA
ATTTGAAGCCATCCATCCGTTTACGGACGGCAACGGGCGGACGGGCGCATATTGAACAG
CTGCTATTGTTGAAAGAGGCTTTTGGATTGCTTATTTGTATTGAGCCGCTACAT
CATCGAAAAACAGGCGGACTATTACCGCTGCTTTTAGGCGTAACCGAACGGCAGGACTG
GGAAAGCTGGATATCTACATCTTAGACGGCGTAGCTGACACCGCCGATTGGACGGTATC
GAAATAGATCGCATACGCGCTGTTTCGAGCAGACACGGCAACACATACGGACACACGC
ACAAGGAATCTACACGCACGAACCTGGTAAATCTTCTGTTTGAAGCCATATACACGCAT
TGCCAACTAGAAAGCGGCGAGGATAGCCAAACGGCAGACGGCTCTAAGTACCTGAAAGA
GCTTTGACAGATAGGTGTGCTGCAAGAAATCGTCATCGGCAGGGACAACTATTATTCA
TCCGCGCTAATGGCAACTATTGCGGGAGAGGGCAACAGCTTACCTCATTCCAATCCCT
CGTTAAAGCATAGCCAAAATAATCAATAATCCGGAGGTCAATATGGCAAGAAGGTCAAAA
ACATTTGAAAGAGCTGCTGCTGAGGTTGAGGAACGTTTCGGTCATCGTGGCATTAAGTTG
GTCAGTTTGAAGGTACAGCCAGCCGAGCGGTGTGAATCAACTGCCCTAAACATGGAAACCA
ACCTGTTGAGGTAAGTCTCAATATGTTTCATAGGAAGTAGCTGGGTTGCCCTCTGTGGT
AATGAGCAAGCTGCAAAAGCCCGTATAGCGACCTTAGGAAGAATCACATAGCGTTAGAA
ATGCTGAAACAGGCTGTACAGGTATGACCAAGCAAGAGCGCATCACGACGCAAGCCTAC
AATGAGATGACCAATCCGTGGCAGGTTCAACAGCATAGTCCCTAACGATGTCGAAGGC
GATACGACCATCAACAACCATCATACGCATACGCACAACACAGCGATGCCGATGGCAAA
GCACTGTGATGAGGCTCACACCCCGTCTTTGTTGTCAGACCGTCAGGCGGGCGCTTTC
GCCGTCAGGCAACCTGCTGCGGCAAGTTTCGACCTGTTTGGCTCGGTGGTCGCCCTCG
CAGTACACGTTTGGCGTTGCCATGCCGACACGTCATGTGCGCGGTTATCGAAAAGGGA
GACTTGTGTTGGTTCGAGCGCGTATGTGCCCTGCGGACGAAGACATCGCGCTGATTGAA
CTGTCCGACAAGCGGCTGCTGCTGCGCACCTTGTATCGATATTGCGGGCAGGATGCTG
ATTTATCAGAGGGCAGGCGCTGTAAGCCTTTGACCTGCCCGAAGGCAGCAGGATTTTA
GGTGTGTGCTGGAGTCAAAAACGGTTTATGTCCGCCGACAGGCAAGAAGCGGTGTG
ATTCCGATTACCGCCCTGATGTGTGGACGGTTGGTATGATTTCCGCTTCCAAAACGTCG
GTACGCGCCCGACCGCAGCCCGGAAATCAGCCGATGCTTCTTCGATTTTGGCAGGCT
ACGCGTGGGATACGAAAACCCGTTGCTGGCGAAATCCGAACAACGCTGACTGCCTGT
CCGAATGGGTGCGTCAGTTGGAAACCGAATAAATCCGTACCGCCATACAAAATGCCGTCT
GAATCCAATCGGGTTCAGACGGCATTGCCATTTCACTGTTTATGATTACTCGGGGCG
CATCTGCCGAAACAGAATCACATCGCGGATGGTTTGCGAATCGGTACGAGCATTACCAA
GCGGTGATACCGATGCCCAACCGCGGTGCGGCGCAACCGAATTCATCGCGCGGAT
GTAGTCGGCATCTAGTGCATGGCTTCGTGTCGCCCGCTCTTTTGCACCACTTGCGC
TTTGAAGCGTTCCGCTTGTCTTTCGGGGTGGTCAACTCGGAATAGCCGTTTGGCAGTTC
GCGGCCGACAACGAACAATTCGAAACGTTTCGGTCAGACCTGTTTGTATCCGAAGCGCG
CGCCAACGGTGAACCTCGACCGGTAATCGACGATGAAGTTCGGATTCCACAGCTTGCC
CTCGGCGCAACCTTCAAACAGCGGAGTTGCAAGCTGCCGATGCCGGGGACGGCGGCGAG
GCTTTCGCCGTGTTTACGATTCTTTTTTTCAGCCATTCCGCATCGTTCAACTGCTCGTC
GGTGTAGTGCAGGATGTAATTTTTGATGGCTTCGAGAATGGTCAGGCGTTCAAACGGGCT
TTCCAAATCGACTTCTTTGCCGTTGAAGTATGTTTCCGTCGCCGTTTACCGTGCGCGA
TGCGTTGCGGATGATGTTCCGCCATCTGCATCATGCGTTTCGATGTCGGAAGAAGGCTTC
GTAGAATTGATCATGGTGAATTCGGGGTGTGGCGCACGGACATGCCCTTCGTTGCGGAA
GCTGCGGTTGATTTCAAACACGCGTTCCAAACACCGGACACAGGCGTTTCAAATACAG
CTCAGGCGGATACGCAAGTAAAGCGGAATATCTAAGGCATTGTGATGGGTAAACGAAGG

Appendix A

-326-

TTTGGCCGTCGCGCCGCCGGGAATCGGGTGCATCATCGGGGTTTCGACTTCGAGATAATG
CTCGCCACCATAAAATACGCACGGATTGGATGATTTGGCTGCGTTTGATAAAGGTATT
GCGCGATTCTTTCATTGGCAATCAAAATCAACATAGCGTTGGCGGTATTGGTTTCCTGATC
GCTCAAACCTTTGTGTTTGTGCGGGCAGCGGGCGTAGGGATTGGACAGCAGGCGGATGCC
GGACACGCGTACGGTCAGTTTCGCGGTGGTTGGTTTTGAACAAAGTGCTTCGCGCCGAC
GATGTCGCCCAAATCCCAATGGTTGAAGTCGTCCAAACTTCTTGGCTCAGCCTTTGTT
GTTTCAGATAAAGCTGGATTGCGCCGACACGTCTTGAATGGTGGCAAAACTCGCCTTGCC
CATTTGACGCTTCAGCATCATGCGGCCGCCACTTTGACGGGAATGCCTTGCGGATCGAG
TTCTTCTTTGCGGATTTCGCGGTATTGGGCGTGCAAAATCGGCGCGAAGCTGTGCGGTTT
GAAGTCGTTGGGATAGGCGTTGCGCTGTTGGCGGATGTTGTGCAGTTTTTCGCGGCGCAG
GGCGATGATTTGGTTTTCTGTTCAACTGCGGCTCGGTTTGGCGATGGTTTTGTTGCTCAT
AAGGTTTTCCGAAAAATAAATCAGGCGCAATCTGTTTCAGACGACCTGACCGAATCACA
AAATTTGCGCATATTTTACGCGATGTCGGCATTTTTTCCATAAACGCGACAATGCCGTC
TGAAAGCGGTTTTGCGGTTTCAGACGGCATCGTTATCATTTGAACATTCCCGCCAAATTCA
ATAAGAACAAAACGGTAAACCGGTCAGATAAATCAAGCCTGCCAATGCAAGGGCATTCA
TACCTGATGTGAGTTTGTGTTTTTCATCACCTTTAACCAACCGTAATTGAGCCAGGCAA
ACACAGGGGCGGACACAAAAGCGGCAATCATCGCAAAATTTGAGCAGATTGCGCATACGC
CGTCAAACAGAAAATCACCGCCAAACCGGTGCGCGCCACCCAAATATTCCAGGCAAGA
ATTGCGCGTTGCCCGTTTTGTCTTTTCCGCGCAGCAGGCGCAGGGTTGCGCAATGGCAC
GGGCATAGCCGTCCACGCGGTAATCGTCGTGCCGTACATACAGGCAAAACGCGATAAACG
CCACCAGCGGGCGGACCAGCGCGGATGGTAACGGCGTACATATTGATCAATTGCCCCGA
TATATTTGCGCGCCGCCATCTGCACTGCTTCGCGGTTGCCGTATTGCACAAACGCGCCCA
GTGCAAGGAAAACCAAGCCAAACCGCCTGCGCATATAACCGACGTTGAAATCAAAAA
TCCCGTCGCGGTATTCCGAAGGATTGATGCGTTGTTTTTCGTTTACCCACAAAGAAATTGA
TGGCGGAAATTTCAATCGGCGCGGCATCCAGCCCATCAGCGCATCAGGAAGCCCAAAC
CGGCAAGCGTCCACGGTGTGCGGTCGATAAAATCGGACTGCATCTGCATACCGCGCGACA
TAGCGATGCGCGCGCGCGGCAAGCGTAAGCGTGCGGATACTCAAAGTAACGATGATGTTTTG
CGCATCCAAAGCGCGTAACGTCCGCTCACCAAAATAATCAGGCGAGGATGCCATAATCA
AGGCGGCAACCGTGC CGGCATCAAAATCATAGCGAGGGAATCGCCATTTGACGATGGCGG
CGGTTACAATGGCGACCGCGCGGTTAATCGTGGCGGAGGATGCACAAAATCAGGA
ATACCCACAAATAAACCGCGCTTTTCTCGGCATAACCTTCAATCAGGCTCTTGCCCGTGT
CCAGCGTGAATGCGCGTGAAGCGGAAAACGGGTATTTGAAGAGGTTGGTCAGGATGA
TGATGAGCGCATCTGCCAGCCGTAAAGCGCGCCCGCTGCGTCGAGGCAATCAGGTGCG
AACCGCGCAGCGCGCGCGCATCATGATCCCGGACCCAAATGCGTTGATTTTACTTT
TCCAAGTCGAAATATGTTGTTCCGACATAAAGTCTTCCGTATTTTAACTGTGTTCAAC
ACACAGAGCGCATATTCCGACACAGCCCTATCTATTGCTCCAATTTGGCGGGGATTGCC
CCCAACAAACCCAAATACCTACCGTCTTCAAAAACAGGATACCGCCCGGTAGGGAAATTT
TGATGAAAACACGTATTGTAACGTAATCCAAATACCTGCCAACACACACTATTAGAACTT
CATGCTCAAACCTGACTATATTTCCATATTACTTCCAAAAAAGGCATAAAACGACATT
TTATGCTAAATTTTACAACAACAACCTTACATCGCTTTTTTCGCGCAAAACACGCACC
ATCCGATCAGCCGTCGCTTTTTCAGCAGGCTGGCGATTGATAAGATGGTTATGTTTTT
CAGACGGCATTTTCAGATTTCCGTCCATGCCATCTGAAGCCGCAAAACCCGATTGGAGGAA
CTGTTATGAATACCGTATCGAATTATCTGTCGCTTACCGGAAGCCATGAAGGCGCAAG
GCTTGGATGCACTCGTCACTTCCCTTCCGCGGACCCCACTGTCCGAATACCTGCCCGAGC
ATTGGCAGGCGCGCGGAATTATCGGGCTTTACCGGCTCGGTGCGCACGTTTGTCTGA
CCACCGATGAAGCGGGCGTGTGGTGGACAGCCGCTATTGGGAACAGCCGCCAAACAGC
TTGCGGGCAGCGGCATTGTGCTGCAAAAAGCGGGCAAGTGCCGCGTACAACGAATGGC
TCGCGGCAAGCTGCCCCGAAACGCCGCGCTCGGCATCCCTTCCGATATGGTCTCGCTCA
CCGGCAACGCATTTGGCGCAATCACTCGCCGCCAAAACATCCGCATCGAACACCCGG
ATAATTTACTGAATCAAGTGTGGACAAACCGCCCGCCCTCCCGCGGAAACGGGTGTTCA
TCCACGACCCCGACTATGTTTTCTGAAACCGCCGCGGAAAACTCGCCCGCGTGCGCGCG
TGATGGCGGAAAAGGCGCGGATTACCACTTGGTTTCTCGCTTGACGACATCGCCTGGC
TGACCAACCTGCGCGGACGACGTGCTTTCAATCCCGTTTTCGTGTCTTCTGCTGA
TTGGCAAAGACAACCGCTCTGTTTACCGACCGATGCGCTGTAACGCCGAAGCCGCG
CCGCGCTGCAAAACCGCGGATCGCGGTGCAACCTTACGCCCAAGTTGCCGACAACTCG
CGCAATCGCGCGCGTGTGCTCATCGAGCCGAACAAAACCGCGTCAGCACGCTTGTGC
GCCTGCCGGAAGCGTGCGCTTATCGAGGGAATCAACCCATCCACGCTGTTCAATCCT
GCAAAATCCGAAGCCGACATCGCCCGCATCCGCGAAGCGATGGAACACGACGCGCGCGGT
TGTGCGGTTTTCTTCGCGAGTTTGAAGACATCATCGGCAACGGCGGCGAGCTGACCGAAA
TCGACGTTGGACACCATGCTTTATCGCCACCGCAGCGTGCGCCAGGCTTCATTTCAATTGA
GTTTCGACACCATCGCAGGCTTCAACGCCAACGGCGCACTGCCGATTAACGCGGACAC
CCGAAAGCCACAGCACCATCAGCGGCAACGGGCTTTTGCTCATCGACTCCGGCGCGCAAT
ACAAAGCGGCGACGACGACATCACCGCGCTGCTCCCGTCGGCACGCCGAGTGCCGAAC
AAAAAGCGACAAACCTCTGTTCTCAAAGCCCATATCGCGCTTGCCGAAGCCGTGTTCC
CCGAAAACATCCCTCGCCGCTGATTGATGCGATTGCGCGAAACCCCTGTGGCAGGCGC
AATGCGACTACGGCCACGGCACCGGACACGGCGTAGGCTATTTCTCAACGTCCACGAAG
GCCCCGAGCGCATCGCCTTTCGCGCGCCCGGCCACGCGCGAAACCGCATGAAAAAGGCA
TGGTTACCTCCATCGAACCCGGACTCTACCGCCCGGAAATGGGGCATCCGATTGAAA
ACCTTGCCGCCAACCAAGCGCTGCGCGCCCTCAAGAAACCGAATTGCGCAGCTTCTCT
GTTTTGAACCTTGACCTCTGCCCCATCGACACCGCCTGATGGACACCGCCCTCATGA
CCGACGGCGAAATCGACTGGGTCAACCGCTACACGCCGAAGTCCGCCGCGCTCGAGC
CGCTGACCGGAAGGCGCGCAAAAGCGTGGCTGATCAAACGCAACCGGACCGCTGCGCGGT
AAACAGCACGGCGCAAAAATGCCGTCTGAAAGCCCTTCAGACGGCATTTGTTTCCAAA
ACATCCCGCACCGTTTTTCATCTTGCCGCAAGCAATATAGTGGATTACAAAAATCAGGA
CAAGCGCAGGAAGCGCGACAGTACAAATAGTACGGAACCGATTCACTTGGTGTTCAG

Appendix A

-327-

CACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTTTTGTTA
ATCCGCTATATTCGCCATCTCTAAGATTTACAGCGATACACGGGTGATTTAAGGAATGC
CCGAACCGTCATTCCCGCCACTTTTCGTCAATCCACGAAAGTGGGAATCTAGAAATAAA
AAGCAGCAGGAATTTATCGGAAATAACTGAAACCGAACAGACTAGATTCCCGCCTGCGTG
GGAATGACAATTCGAGACCTTTGCAATAACATAGGTTACTAAAATTTATGCTCAATCTC
ATTTTCAAAATGCAAACTTTTCTGATTTTCTTACTTTTGTCTCAATATTAGGAAGGTT
TTAGGCAATTGAAATTTTGGCGCATTTTATGCGTCAAATTTCTGTTAACAGACTATT
TTTGCAAAGGTCTCACTATATGTGCAAACCAAGCCAAAATGCGAAATACCGTCTGAAAA
TCTTTCAGACGGTATTGCTGTCTTTATTGCCGTTTTCTTCCGTATCCGGATTTTGTGTT
TGGGGCTGAAGCAGATTGGCAGTCAGATTGCAATCAAAGAATGAAGGCGAGCCGTCAAAA
ACAAAGCTATCCGCTTCACCGCCCGATATTAGAAATTTGTGGCGCAAACCGAGCGAGGC
GGCATTAAATTTAGTGTAGTTGCCGATGCCGGTATTGCGTTTCAGCCAAGCGCCAGACAC
GATGGCGGAAGTGCCTTTGGAAAAATCATAATCAACGCCGGCGATGATTGATCGTAGCT
GGTATTTTCGCCTTTTTTACC GCGTTCGATAAAGTCGAAACCATGGGCATAGCTGATGCG
TGAAGTGCATTACCGAAGCGGTAGGAAGCAGTGGCGGCAATTTCCGTCGTACTGTTTTT
GGTTTTGTGCGCATTTTTCAGACAAATCCAAGTACGCGCCCAAGGCGAGATTCAAGCCGCC
TTCTCATAGCCCGCCGTCAGACGGTGTACCTGATGTTTTTCAAGGGATCGGTACCTTT
GGCTTGATCACTCCCGCTCCGATCAAGAACAACCTCAAAGCATTACGTCGACATTGGC
GTGTCTCGCATATTTAAAGGCATAGTTCCCGGCAAAACCGCCATTTTGTAAATTCAGACC
GGCATAATACACATCCGATCCGGGCTTGCCGACAACAGCCGGAACGAGAGTAAGATTATT
GTTTGTATTCTTAGTATAATAAGCCGGCGTATAGGCGGACTTGCTGTTTTGGATCGGAAC
GAATTGAACGCTGCCGCTGAAACCGGAAAATTCGGGGGAATCGTAGCGTACGGAACCGG
CATGTCGTGCTGGCGTTTGAATAACCAATTGCGAAGCCACATCATTTGCTGTCCCA
AGGATCAATGGCTTGGCTGGCATCGTCAAACCTGATTCGCAACGCGACCGCGCGCAGCGT
ACCGAATTCGCCCTGCCAAGCCGATAAAGGATTCCCTGTTGCCCCACTGGGTGCGCGCCGC
GCCGGCAACGGATACGCTTGTCTCAAGCTGCCAAACAGCCTTCAGCCCGTCGCCCAATC
CTCACTCCCTTTAAAGCCGATAAACGAGCGGAAATCACTGATTTTTCGTCCTGATGCGGCT
TTTGGCCTTAGTAACTTTAGTAACTTTTACCTGACCGCTCGCTCCACCGTTAGCGGCTTG
TGCTTCAGTCAATTGCAGCTGGTAGTTCCCTGCCCTCCACGCCGGCTTGATTTCGCCGTA
TAGGCTGACATCGGCAACGGCCGCAAGCGCAGTGGGACAATACGAGGGCGGTAAAGTTT
TTTTCGCATATCGGCTTCTCTTTTGTAAATTTGATAAAAACCTAAAAACATCGGGCAACA
CCCGATACGTCCTCAATTTATACCCCCCCCCCGCAAAAACCATTTTTCAGAACAAATAT
CTGATAAATGCCGCAACCTTTATTTTAAAAATGATTATATTTTGATATAAAAACATAGCT
TATTTTTCAAAAACGTTGTGTTTTCTACAACACAATTCAAGCGCAGACCTCGTGCGAGCC
GATGCGCTGCTGCCCGGATGCAGTCTCGGCTTTTTTAAACGCCATAAAAAAACACACGCG
GCATTTTATAGTGGATTAAACAAAACAAGTACGGCGTTGCCCTCGCCTTAGCTCAAAGAGA
ACGATTTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATCTGTACTGTCTG
CGGCTTCGTCGCTTGTCTGATTTTGTAAATCCGCTATAAAGACCATCGGGCATCTAC
AGCCGTCATTCCCGCGCAGGCGGGAATCTAGAATTTCAATGCCTCAAGAATTTATCGGAA
AAAACCAAAACCTTCCGCCGTCATTCCACGAAAGTGGGAATCTAGAAATGAAAAGCAG
CAGGAATTTATCGGAAATGACGAACTGAACGGACTGGATTCCCGCTGCGCGGGAATG
ACGGGATTTTAGGTTTCTGATTTTGGTTTTCTGTTTTTGAGGGAATGACGGGATGTAGGT
TCTTAGGAATGACGTGGTGCAAGTTTCCGTACGGATGGATTTCGTCATTCCCGCGCAGGCG
GGAATCTAGAATTTCAATGCCTCAAGAATTTATCGGAAAAAACCAAAACCTTCCCGCT
CATTTCCACGAAAGTGGGAATCTAGAAATGAAAAGCAGCAGGAATTTATCGGAAACGACC
GAAACTGAACGGACTGGATTCCCGCTGCGCGGGAATGACGGGATTTTAGGTTTCTGATT
TTGGTTTTCTGTTTTGAGGAATGACGGGATGTAGGTTTTCTTAACCTGCGTCTAGAT
TCCCACCTTCGTGTAATGACGGGATGTGGTTCTGGGAATGACGTGGTGCAAGTTTCC
GTGCGGATGGATTTCGTCATTCCCGCGCAGGCGGGAATCTAGACCTTAGAACAAACAGCAAT
ATTCAAAGATTATCTGAAAGTCCGAGATTCTAGATTCCCGCTTTCGCGGGAATGACGAAA
AGTGGTGGGAATGACGGTTAGTTGCTACGGTTACTGTCAAGTTTCGGTTATGTTGGAAT
TTCGGGAAACTTATGAATCGTCATTCCCGCGCAGGCGGGAATCTGGAATTTCAATGCCTC
AAGAATTTATCGGAAAAAACCAAAACCTTCCCGCGCTATTCCACGAAAGTGGGAATCT
AGAAATGAAAAGCAACAGGAATTTATCGGAAATGACGAACTGAACGGACTGGATTCCC
GCTTTTTCGGGGAATGACGGGATTTAGGTTTCTGATTTTGGTTTTCTGTTTTTGGGGAA
TGACGGGATGTAGGTTTTCTTAACCTGCGTCTAGATTCCCGCTTTTTCGGGAATGACG
GGATGTGGGTTTCGTGGGAATGACGTGGTGCAAGTTTCCGTGCGGATGGATTTCGTCAATTC
CGCGCAGGCGGGAATCCAGACCTTAGAACAAACAGCAATATTCAAAGATTATCTGAAAGTC
CGAGATTCTGGATTCCCGCTTTCGCGGGAATGACGAAAAGTGGTGGGAATGACGGTTTCAG
TTGCTACGGTTACTGTCAAGTTTTCGGTTATGTTGGAATTTTCGGGAACTTATGAATCGTC
ATTTCCCGCGCAGACGGGAATCTGGAATTTCAATGCCTCAAGAATTTATCGGAAAAAACCA
AAACCTTCCCGCTGCTATTCCACGAAAGTGGGAATCTAGAAATGAAAAGCAGCAGGAAT
TTATCGGAAATGACGAAATTTGAACGGACTGGATTCCCGCTGCGCGGGAATGACGAAAT
TTAGGTTTCTGATTTTGGTTTTCTGTTTTTGGGGAATGACGGGATGCAAGTTTCTTAA
CCCTGCGTCTCAATTTCCGCTTTTTCGGGGAATGACGGCGACAGGGTTGCTGTTATAGCG
GATGAACAAAAACAGTACGGGGTGTCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAG
GTGCTGAAGCACAAGTGAATCGGTTTCTGCTACTATCTGTACTGTCTTCGGCTTCGTGCGC
TTGTCCTGATTTTATTTAATCCACTATAATTTCTGCGTGTGTCGGGTGATTCGAAATCA
AGCCGAATCAAATATATCGGACTTCGATAATGTCTGATTTCGCGCACGCCGCCCGGGGCTT
GGACTTCCGCCGTATCCCTCTCTCTTGCCTTAAGGCGCGGGCGATGGGTGAGCCGA
CATAGATTTTCCCTTGTGTTGCTGCGCTTCGCTTTCGCCGACAATTTGATAGATAACGT
GTTCTTCGGTTTCCAAATTTCCAGCGTAACCGTCGTACCGAACACGATTTTGCCTTCGG
CGTGGATTTTCGGTCGGATTGATGATGTGGCAACGGAAGTTGTGTTCCAGCTCGGAAA
TGCGGCCCTCGATAAAGCCTTGGCGTTCTTTGGCGGCTTCGTATTCGGCGTTTTTCGGACA
AATCGCGCTGCGAACGGGCTTCGGAATCGCTTCGATCACTTCGGGACGCGCCACGCTTT

Appendix A

-328-

TGAGCTGCTGCAATTCCTGTTTCAGCAATTCGCGACCGGTACGGTCAGGGGGATTTTTT
GCATCGGTCTTTTTTCTCCATATTCGCGCACACCGGTTTGCGGCAGCAAGCATACCGCGT
ACCGTCTGTTGTTGTCGCTCGGATATTAAATAAAAAATACAAGCCCGCGGAAATCGG
CGGCTTGCTGTCGTTGAACAGCGGCTATTCTACCAAAATCTATGAAATTGGCAATCGTG
CCGCGCCGCCGCGAAACGCGCCATGTCCGCAACAAAGCTGAAATATGCCGACAAAGAA
ATTTTAGAAACAAAAATTTAAAAATAATCAATTTTCGGCATAAAAAACCATTTACGG
ACTTTAAACCGGAAATGCCAAGCCTGAGATTTTTCATACAGCATTTGCACCAAGTATAAT
GCAGGCTGTTTTATCTTTAATAATATTGACGTTTGGCCATGACCGAATCCGTCCGCTC
CCCGTCGCGCTCTCAAACCTTCCACCGTCGCGCTGCCCGGCTCCAAAAGCATCAGCAAC
CGCACCTGCTGCTGTCGCGCTTGTCCGACAATGCTTGCAGAAATCCATTCCTGCTCAAA
TCCGACGATACCGACCGTATGCTCGAAGCACTCGATAAACTCGGCGTTCAAATCGAATAT
CTTGCCGAAGACCGTCTGAAAGTGACCGGCACAGCGGACGCTTCCCAACCGCACTGCC
GATTTGTTTTTGGGCAACGCGGCGGCGGTTCCGCCGTTAACCGCGCTCTGGCGGTT
TTGGGCGGCGATTATCATCTGCACGCGCTGCCTCGTATGCACGAACGTCCTATCGGCGAT
TTGGTCGATGCGTTGCGGATTGCCGGGGCGGATGTGCAATATCTCGGCAAGGAACACTAT
CCGCGCGTTTATATCGGCGAACGCCAAGACAACGCGGAGCGGCTGATTCCGATTAAAGGC
AATGTGTCCAGCCAGTTTCTGACCGCCCTTTAATGGCGTTGCCGCTGACCGGGCAGGCG
TTTGAATCCGATGTTGTCGGCGAATTGATTTCGAAGCCCTATATCGACATTACTTTAAAA
CTGATGCGCGAATTTCGGCTACAGGTTATCAATGAAGGCTACCGCGCTTCAAAATTTCC
GCCGATGCGCATCTACATCACCGCGCCGGAACACTTGCACGTCGAAGGCGATGCCCTCAGCGG
TCCTACTTCTCGCAGCGGTTTATTGCGCGCACGCGCTGCCGCTTACCGGTATCGGC
GCAAACAGCATACAGGGCGATGTGCGCTTGGCCCGGAGCTGGAAAAAATCGGGGCGGAC
GTGGTTTGGGGCGAAAACTTCGTGCAAGTTTACGCCCGAAGGAACGTGCCGTCCAATCC
TTTGATTGGATGCGAAGCAATATCCCGATGCGCGCATGACCTCGCCATCGTCGCGCTT
GCTACAGGGCAACCTGACGCTGCGCAACATCGGTTCTGTGGCGCTCAAGAAACCGGAC
CGCATCGCGCAATGGCAACAGGTTGCGCAAACTCGGGGCAAAAGTCGTGGAAGAAGCC
GAAGCAATTACATCACCTCACCGCGCCGGAACGCTGACACCGGACGCGCTCATCGACACGTAC
GACGACCACCGCATGGCGATGTGTTTCTCGCTGGTTTTCGCTGTTGGGCGTACCGGTCGTC
ATCAACGATCCGAAATGCACCCACAAACCTTCCCGACTTATTTGACGCTGTTCTCATCG
CTGACCGAAACAGCGGAATAAGGCGGCATTTGCGCGGATTCCGGCGCGGCGCGCGGCG
GGCTCATCTGTGTAATAAAGTATGTGCGCGGAGGTAGTTTTTGGCGTAAACCGGTGTGGA
GAGTTTTTCGGTTTTGATGGTTTTGCGCGTGTGGGGCGATGGATGAATTCGCCGTTGCC
GATGTAGAGTCCGACGTGTGAGTAGCGGTGTGCGCGCGCGGTGTTGAAGAATACGAGGTC
GCCGCGCTTGAGCGCGCTTCCGGGATTGTGCGGCTTGGCCCGCATGTGCGGGCGGT
GCGGGCGAGCTTACGTTGAGGGCGTTTTTGTAAACGAATTGAATCATGCCGCTGCAATC
GAAGCGCGTTGCCGTGCTGCTGCCGCCCCATTTGTAGGGCGTGCCGATGAGTCCGAGGCT
GTGGAGCATGAGTTCTTCCGAGCCTTGTGTGCGGTGATGTGGCTGATGCGGACGGCTTG
GATTTGCCGGAATGCTGTTTGGGTTTTCGGTTGCGGTTGTTGCCGAGGTCGTGCCGCA
TGAGGCGAGGAGAGTGCCTGAGACAGAGGAAAGGGTTTTGTCGGGGGAAACATGGT
TTTTCTTTGCGGGTTCGATATCCGCTGTAAGGTGTTTTCAGACGGTATAGTGGATTAAAC
AAAAATCAGGACAGGCGAGCAAGCCGAGACAGTACAAACAGTACGAAACCGATTCACT
TGGTGCTTACGACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGTCGTACT
GGTTTTTGTAAATCCGCTATATTTCTATAATAAACCCTTCTATGGGCGAGGGATAGGAT
TTTTGCGGCGATGCGTTTCCAAAGTTTGGCTTCCGGTTCTGTCGGGTAGGTTTTTCCGGT
GGCGGGATCGTGCGATTGCGAGCGGTTGTGCTGTCGAGGGTAACGCGGTAGGCGTAGGC
GGGTGTGGTATCGGCAAGGGTGCCTCCATCTGTTCTGCGATTGTTGGGGCTTTCGATAAC
AACGCCCCATTTCCGTTGAGACGCGCGGAACGGGGTTCGAGGTTGAACGAACCGATGAA
GATGCGTTTGCCTGCCCAATGAAGTTTTTGGCGTGCAAGGCTGTTACGGAGCTGCCGCT
CAGGCCCTTGTCTTTTGTGGCGGGGACGGCATGGTTGGGTTGCAGCTCGTAGAGTTTGAT
GCCGGCTTTGAGCAGCGGTTTTCCGTTATTGACATAGCCGGAATGGACGGCGGCAACGTC
GGTCGCTGCGAGGAGTTGGTCAGAACGGTAACGCTCTATGCCGCTCTGCACAGTTTGC
CAGTGCGCTGTGCGCGATTTTGTGGGAACGAAATAGGGTGAACAGATAGACGCTTTT
TTCGGGCTGTTTGAAGCGCTCTTGCAGCCGCCCGCAATCGGCGGTTGCGGCGGTGCGG
GTCGAGTCCCTTTGCGAGGTCGTGCTGATGAGGCGGTTCCGACGCTCTGCCAGTCGAT
GCATCCTGTCTGATTTTTTGGTAGAGGGGCGACTGTTCCGACGTTTCCGCGTAGCGCAG
GAGCGCGTGTCTGGACGTTTCTGCTGTTGATCCGAGTGCTTGAAGACCTTCCGATGTC
GCCGCTGCGGATGATGCGCGTGGCGTTGTGGGCGGAATGGCTTGCCAGTAGCGGTGAA
GTCGTGCGATACTTCCCGACGACGCTGCCGTTGGCGAGGATGTCCAAATCGGCGAAAC
GGTGCTCTACCGACTTTGAAGTATCTGTCGCCGATATTGCGTCCGCCGATATGGTGGC
GCGGTTTCCGGCGTAAGGATTGTTGTGATGCGGCGGTTGAGGCGGGGAAAGTCGGT
CAGGTAGCCGAGTGCAGCGCATTTTCGTAAGACGAAGGGTTGAACAGGCGCACTTCGAT
ATTGGGATGGCTGTCGAGGGCAAGCAGGAGGTGCTCCAATCCGCGCGTGTGTTGTCGTC
CAACAGAGGCGTACGCGCACACCGCGTTCTGCCGCAAGGTACACGAGGTTGAACAGCAG
CCTGCCGGAATGTCGTTGCGCCAGATGTAGTATTGCAATCGAGGCTGTGTTCCGCGAGA
TTCGATAAGGGCGCGCGCGGCGCAAGGCTTCCGTTGGGGGTCGTTCAACAGATAGATATC
GGATAGCCCGTTGGTATGAGGGGTGTGCCGATTGTCAGGATGTTGTCAGGCGGACGGG
TTTGGAAAGTATTGAAATGACGGCTTTCCGTCCGTTCTCCAGTGGGGGCAACCATGAAGA
ACATGAACAGAGAGGAGGACATAAAGGGAATTAGGCTGCGTGTTTTCATCAGGGATAT
GGTTTCAGACGGCATTCCTGTGTTTTTGGGGTTGGCGCGCATGGAAGTGGGTATCATAA
TCCAAACGTTGAACGGGTAAAGTTTTGCGTGTTGACCGCTTCCAGACGGTGTGTTCCG
TGTGAGTTGGTGCCGCTGAAACGTGACGCGTTTGAACACAGCGATGATGCAAGGGT
GATGCCGCGGATGCTGACGAGGTCATACGGAAGCGGAATGCAGACCTGAAGAAGCGG
TATCAGAAATGTCCAGTTTTTAAGGATTAATGCGCGCGCAACAATGCCATGCTGATGGC
AAGCTGTTGGTTGACCGCCATCAGGCTGTTGCCGCTGCCTGTTGTTGCGGGCGCAATC
GGCGAGGTCAGTGTGTTTCATGGCAGAAACTGTAGGGAGTTGCACGCGCGATCGCCAG

Appendix A

-329-

CGAGAGGAAAACCCAAATCCACAGCGCGGAGTTTCCGTCAGGCAGGGCGAGCAGCATGAT
GAAGGCGGCAAGCAGCTTGGTGTTCACAAAGCAGTACCGTGCGGTAGCCGAAACGTTTCAT
GAGCGGTGCAATCAGCGGTTTGACCAGCAGCGAAGACAGGGCGACGGGTGCGACAGCCCA
ACCCGACAGGCTTGCGCCGAAGCCGAAAGCGATTTGAAACATCAGGGGCATCAGAAAAGG
AATCAGCTGATGCCGAGACGGCTGAACAGATTGCCCGCCAGTCCCAGACGGAAAGTGCG
TATCAGAAACAGGTGCGCGGAATAAATCGGTTTGACGCGGTTTTCATATGTCGGAATA
ACGGCGTGCAAAACAGCAGTCCGCCGCACAGCGGCAACAGTGCAAAATACGGAGGCAGCGC
GTGCGACAGGCTTCTGCCGAAAGTAACAAGAGGCACGCGCGGCAGAAAAATCAGATA
ACCTTTGAAGTCTAAAGAGATATTACTGCCTTTAATATCAGGGCATGATGTTGCGTCCCAA
TATGAAACCCAGCAGACCGATGGGCAGGTTGAGCAGGAAAAATCCAGTGCCACGAAGCGTA
TTCGACCAAATAACCGCCGCCAAAGGCCCTAAACCGGCCGATTAAATGCGGGCATAAC
CGCATAATTGATGGCATTGAGCAGCTTGGACTTGTCTGTACACACGAAGATGGTCAGACG
CGGTATCGGAACCGCATCGAACCAGCGGATGCCCTGAACGACACGGGAAAGCGTCAATT
AAACAGCGAACCAGGATGCGCGCACAAATGCCGATCCGAGCATAAAACCGGCAATCGAACC
GAAAAAGACTTTTTTCGTTCCGAACCTGTCCGCCAAATAACCGCTCAAAGGAATCAGCAG
GGCAACCGTCAGCGTGTAGGAAATAACTGCCAGTTGCATATCCAGAGGCGACTCATTAG
GTCGCGCGCAATTTCAGGAGTGGCGGTTTAAATGGTGCATCCAACATCTGCATAAA
AATGGCAATTGGCAGCAGAAGCGGCAGCCAAAGGGGATGGTGCAGGGCGGATAGGGTGTT
TTTTTCCATAGGGCGATTGTACCCCATCCTTGTGCGGTTATGTTTTAGATGCTGTCTG
AATGCCGTCAGAGTCGGCATCTTGAATGTTTACAAGCAAACGAACCGGCATTGCATTGTA
ATGATAATTATTATCGAAACCATCAGATTAAAGTACAGTAAGCGTTATGGGGGCGATT
GTAAGAAAAACCGGATTATTTTTTAAATTAGACTTGACCCGCAACAGTCAATTACTTAA
AGTAAACGCTTACCTTTTACAGAGAAAAACGGGTTTCCGCTTATCAAAAAACATGAGCG
CAACCATTTCCCAAAATCATCCGATACGACAGCAATCCGACCGATGCTATTTTTTCG
GCATTGCGTCTTGTATCTTTTTATGCCCGAAGCAGGCATGGATGCCATTACCCTAATCG
AGCAGCAGGGCATACGCGTCCATTTCGGCATGGCGCAAAGCTGCTGCGGCCAGCCTGCCT
ATTATCCGGCCATCCGACCGAAGCCTTCGATGTGCGCAAAGCACAACTCGACCTTTTCC
CTGAAAACTGGCCGATGCTGCGTCCGCTCGGCTCGTGCGCGGCATGATGAACACCACT
GGCCGACGCTGTTTAAAGGCAGCGAGTACGAGGAAAGGGCTGTGGATTGCGCGGCCGCA
TCATCGAGTTTACCCATTTCCTGCTTGCCATCGGTTTCAAACCCGAAGACAGGGCGAAC
CGCTCAAAGTCGCGGTTTACACTTCTGCGCCGCGCGCGGAAATGAATGTCATCTTT
CAGGCTGGCAACTGATTGACGGTATGGAAAAAGTCGAACGCATCGTCCACGACCAGAAA
GCGAATGTTGCGGCTTCGCGCGGCACATTCTCCGTCAAACAAGCCGATATTTCCGGCGCAA
TGGTAACAGACAAAGTCGCCGCGCTGAAAGAAACCGCGCAACCGAAATCATCAGCGCGG
ACTGCGGCTGTATGATGAACCATCGCGCGCAAAATCGCCAAGGACGAGCCGATATGCCG
GTCCGAAACATATCGCATCTTCTGTTGGAACGCACCGGAGGCAAGCATGAGCGCGCG
TGAAAAATTTTTGGCAAACTGAAAAAGCCGACGATTGCCGATGGAAGAACCTGCGGT
TTTTGATTATTACCGTGAAATGGGTGTTTTCTTGGGCGAGCGAAGTTGAGCGTCTGAAACA
TTGGGCTGCGGCTATGCGTGCGGTCAAACCGAAATTTATTGGGTGACGAAAAGCAATTG
GATGACGGTTTTCCGCGAAGCGCGCAGAAAGCAAGGGTTTGA AAAACATCCTGCTGCCCTT
GGCGACCGAACCGGACAAATTGCCCGTGCCGCTTGGCGGACAGCAATATCGAACCGAT
TGCTTTCGAGCGCGAAATCGATACCTTGGA AAAACCGAGTTTTTCACGAACATCGATGCGGG
CTTCAGCGGCGCGCAATGGCGCATCGCCGCAACCGGCACGCTGATGCTGTTTTCCAGCCC
CGAAGAACCGCGTACTTTAAGCCTCGTTCCGCGCGTGCAATTCTGCCTGTTGATACGTC
CAAGATGTACAAGCGAGTTTCATAATGCGCGTGAAGGCGAAAACTGGTGGA AAAACGGTAT
GCCGACCAATGTATTCTGATTTCGCGCCGTCGCAAAACCGCAGACATCCAATGACGCT
TGCTTACGGCGCGCACGGCCGCGCGATTGGTTCATCTCGCCATCTGCCCAGCACAT
TTCCCTGCGGATTTTGAGGAAAAACGCATGACTACGCAAAACCATCAAATTTACATGAAG
CCGGAACCTTTCAAGCAAAACGCCGCAATTTCCCTTCAAGACAAGCCTTTGCGCAAAAGC
CTGCGTACCGCGATGGAATGCTGATGACCAAACGCAAGCCGTTTGAACGACGAAGAA
GAGCTGCAAAAGCCTGCGGATTTGTGCGAACCGTCCGTCAGCGCTCATTGTCTAAATTG
CCAGCCCTGCTGGAGCAGCTGGAAGAAAACTGACTAAGTTGGGCGTGAAAGTGCACTGG
GCAGAAACCCGACCGAAGCCTGCCAAATTATCCAGCAGATCATCAGCCAAAAACGGC
AAGCTGATGGTCAAAGGCAATCGATGGTCAGCGAGGAAATCGAGCTGAACCATTTATCTT
GAAGCAAAAGGCATTAAAGCGGTAGAAAGCGACTTGGGCGAGTTTCATCGTCCAAATGGCA
GGCGAAAAACCGACCCATATCGTGATGCCTGCTATCCCAAAAACCAAGAACAGGTTAGC
GAAGTGTCCACCAAAACCTCGGTACGCCGCTGACAGACGATGTAGACCAACTGACCGGC
TTCGCCCGTAAAGCACTGCGGATATTACAGCACTGCCGATGTCGGTTGAGTGCGGTA
AATTGTCGCTGTGTAACAGGTACGCTGTGCTGGTGGA AAAACGAAGGCAACGGTCGC
TTGAGTACCACCGTACCGCCGTCATATCGCTATTACCGGCATTGAAAAAGTGGTGGCG
AAATTGTCCGACATCCACCCCTGTACAGCCTGCTGCCGCTTCTGCCATTGGTCAGAAC
ATTACCACTTATTTCAATATGATTACCGGCCCGCGCGCAGTGAAAGAAATTAGACGGTCCG
CAAGAAATGCATTGGTTCTGCTCGACAACGGCCGACGAGGCTTATGCCGAAGACCAA
ATGCGCGCCACCTGCAATGTATCCGTTGCGGCGCGTGTATGAACCATGCCCCTTAT
ACCCGATCGGCGCGCGCATACGGCACAACTATCCCGGTCGATTGGCGAGATTATT
TCCCGCACCTGTTAGGCTTGGATGCCACTCGCGACCTGCCGACCGCTGCACGATGTGC
GGCGCGTGCGTGGAAGTTTGTCCGTCAGCATCCCGATTACCGAACAAATGACGCGTTTG
CGCGTTGAAGCGCAACGTTCCCGACCGAAACCGTGCCGCAACCCATCCGGGGGCAAGGC
GCATCGCATACCTTCGGCGCAACAAATGGCGTGCGGCACATTCAACGGTATTTTCAGCGGC
AGCAAAACCTACCGCGCTTCCGTTGGGCGAGCCACCAAGTTCCGCAACCTGACCCCGCGC
AAACAGTTGGGTTGGACGCAAAACCGCGTGCCGATGAAACCGGCGAAGAAAAACCTGCAC
GAACTAATGGCAAAAAAATGCGCCAAAAAGAACAGGCATAAAAAAGTTGTTGCAAAAAAT
GCCGCTGTAACCCGAAACAGGGCTTCAGACGGCATTTGTATAGTGGATTAAACAAAAATC
AGGACAAGGCGACGAAGCCGACAGCAGTACAAATAGTACGGCAAGGCGAGGTAACGCGGT
ACTGTTTAAATTTAATCCACTATATATTCGACAGCGGTGGGTTTTAAATTTGTTCCAAT

Appendix A

-330-

TCCATATTCAAACAGCCTGTTTCCTGTTTGGCTCGGAAGTCTGCCAGTTTTTGCGCCAGT
TCGGGGGTTTCGTTGGCGAGCATGGAACGGCGAACAATGCGGCATTGCGCGCGCTGCC
TCGCCGATGGCGAATGTGGCGACGGGTACGCCTTTGGGCATTGTACAATCGATAAAAGC
GAATCTTCGCGCGCAGGTATTTGCTGGGACGGGTACGCCAAAACGGGGACGGTGGTC
TTGGCGCGCAACCATACCGGTAATGCGCGCGCGCCGCCGACCCGCGATGATGGCTTTG
ATGCCGCGCGCCGTGCGGTTTCGGCGTATTGGAACATCAAATCCGGGGTGGCGTGTGCG
GAAACAACGCGCGCCTCATATTCTACGCCGAACCTCTCAAGAACTGCGCTGCGCTGCCGC
ATAACGGGCCAATCGCTGTTGCTGCCCATGATGATGCCGATTGTATCATAAATCCTCCT
TGGTGGCGGATGGGTAAAAAGCGGAAAAATGGA AAAAATATCGTTTGGCGCAGCGCTGCCG
CGCGCGCTTTTGGCGCGCGGTGCGGGATAGGTCTGTATCAGGCTGCGCCAAGTCGCC
TTGCAATGTCTTTTTGCTGAAGCCTGTATTGGCATTGCGCGATTGTAACATGGCTTCAG
GCGCGGTTGGGCTGTCTTTGAACCGGTTGGCGTAACGCCCTCCGATTTCGATGACGGATT
CGCAGTTGCCCATACGCGCCCTGCTTTGCAGCAACAGGTACATACTGCGTTGCGCGATGC
TGCGCGCGTCCGCTCCGTCGCGCGCTTTCAACAGGGAGGACGCGGAGAAAATTTGCCG
TTTTATAGTGTTTGAAGTGCTGATTGTAGAGGTTTTGTGCGGTTTCGACAGTATGTGCGG
ATGCGCTGCGCGCTTCGGTATTGAGGTAATGCTCTTTCAACTTGGCGTTCGCGAGTTTTT
GGAGTATGCCCTTTCGCGCGCGGTGCGGGATAGGTCTGTATCAGGCTGCGCCAAGTCGCC
TTAAGGTTTCCACTTCGTTGACAGCGCGGACGATTGTCCTTCAGATAGTCCAAACGGT
CTTGCAAGGTGCGAACGGGATAGGGAATGCCGTCTGAAGCATTTCCTCGTGCGACATTT
CGGTTTGGCTGCCCTGCGGAACGGGTGAAACGGAAGCACAGGAGCGGACACAGACAGCC
AAATGATAAAAAGCGGTAATTTGATCTTCATTATTTTTTTCAGAAGCAGGGTCAAGCCGTC
GCCGACGGGACGGGTGATGGGACGATGCGCGGGTTCGTCGCGAGTTTTGATTGAAATC
TTTGAGGATGCCGACGCTGGGCGGCGCATCGGAAGCCGCTTCGCGCATCACCTTCGCT
CAGCAAAATATTTCGATGGCGATGATGCCGCTTGACGAGCAGTTTGAAGCAACGCTC
GAAATATTGCGCGTGGGCGGTTTTGTCTGCGTCTATCAGTGCCAAATCGTAGCTTCGCGC
TTCACCTGTGCAATCAATCATCAATGTCAGCAATGCGGGTTGCAAGGTGACGGCTGAT
TTTATGTGCCACACCGGCTCGTTCCAAACCTGACGCGCGGTATCGGTAAGGTTACATT
GATGTCGACGGCGTAATCCGCGCGTTCGCGGAGTGCCAAATGCAAGCGCGGTGCTGCT
GTATCCGGTAAATACGCCGATTTCAGATATTTTTCCGCGACGATCAGCTTGCCAGCCA
AACCAAACTGCGCGCTGTTGCGCGCAATCGCCATTGTCCTACGCGTATGCGCGGT
CTTCTCGCGCAGCGCGTCAAAACGGGATGTTGCGGTTGCGCGATGGCGTTCAAAATAGTT
TTGCAAGTCCGTTGCGACATTGGACAGATGGGTGCTCATTTGCGCGGATTAGTCTTGGT
AATAGGTATAAGGTTTTTTCGCCACTTTTTCGCCCTCGAAGTTTTCTCTGTTCTCGGGAT
TGAGTTGACATCCACAAAAGCCCTGTTTTCCAAACGCTGCTGTTCCAACTCAGGTT
TTTCTTCAATCAGGCGGTTGAGGAATTGTGTGGCATCGGATTGGTAGTGATACATCTTTG
TGCTCCAATTTTACGGAATATGGCGTGATTATACTGGTATTTTCCAAACGGGATAAACGG
CTTTTATCAAGATAACGGGCAAGATAAGGGTTTTATTATAGAATAAGACGTTTTTT
GCAACGGAAGCCCGCTTATGTCCGAATCGCGCGCTGCGCGACCATCTGTCAACCAA
ATCGCGCGCGGCGAAGTGGTCAAGCGCCCTGCCAACGCCCTGAAAGAAATCGTTGAAAC
AGTATCGATGACGGCGCAACGGCGATTGAAGTCGAGCTGGCGGGCGGCGGCATCCGCTG
ATTGCGGTGACGCAACACGGGCGGCGCATCCACCCGACGACATCGAACTTGGCTCCAC
CGCCACGCCACCAGCAAAATCAAAACCTTAAACGATTGGAACACGTCGCCAGTATGGC
TTTTCGCGGCAAGGTTTGGCAAGCATCGCCTCCGTCAGCGCCTGACCCTGACAGCGGT
CAGAAGCAGAGTTGCGCGCAAGGTGATGCTCCACGCGCTCAAGCAGGCATAACGCGACGTA
TTGCACAACGCACTCACTCCGCGCTTCGTCCTCTTCTCGACCTGCGCGCCGAAGCGGTG
GATGTCAACGTCACCCGACCAAAACCGAAATCCGCTTCGCGACAGTCAGCAGGTGCAC
CAACTTGTGTTCCACAGCTCAACAAAGCCCTTGCGGACACAGCGCCAACCTGACCGAA
AGCGTCGGCAACGCGAGGCGAAGTGTGATGACATTACCGCGTGTGTCTCCACCCCAATG
CGGTCTGAAACGACAGCGAAATCTGTTTATAGCGTATCCAATACCCGACAGGCAAC
AAATCAGATACACAAATGCCTTTGGTTATCAGGCAAAACCGCGCCCATGCCCTATCAG
TCCGCATATGCGCGCAACACGACGAGCTGTCCTGCGCGAAAGCGCGCGGCAATGAAT
ACTTACGCCGAATTTACAAAAAACCGACGACATCGACCTTGAGTTAAGCCGATTTCGAG
CAGGCAGGTTTCGGCAATATGCCGTCTGAAACGCCGTGCTCCCAACAGATACGCCGCTT
TCAGACGCGATCCGCTCCCAATCGAACTGCGCGCGCTCGGTTTTGCCATTGCCCAATTA
CTTGGCATCTACATTCTTGCCCAAGCCGAAGACAGCCTGTTGCTCATCGATATGCACGCC
GCCGCCGAACGCGTCAACTACGAAAAATGAAACGCCAACGTGAGGAAACGGCAACCTG
CAAAGCCAACGCGTCTTATTCGCTAACCTTTGCGCGCTCCACGAAGAAATGCGCGGCC
CTTGGCGATTATGCGCGACGCTGGCAGGCTTCGGGCTGGAATTATCCGATATGGGCGGC
AACACCTCTCGCGTCCGTGCAAGTTCCCGCATGCTCGGCAAGCCGATGTCGCTCTCGCTC
GCCAAAGACGATTAACGCAACTCGCCCAAGTCGGCAGCAGCCAAACCATCGAGGAACAC
GAAACCGCATCTCTCGCCAGCATGTCCTGCCACGGCTCGATCCGCGCGCGCGCGCGCTC
ACCTTGGCCGAATGAACGCCCTTCTGCGCGATATGAAAAATACGCCGCGCAGCAACCCAG
TGCAACCACGGCAGGCCGACTTGGGTCAAATGACTTTGAAAGAAATGGACGCACTGTTT
TTGCGCGGACAGTAAGCCGAAAGTGCTAGAAATACGCCGCCGAGACCGCGCTTCAGACGG
CATTCGACGCAACCGACAGAAACATCAGACCCGAAACCAAGAGAAAAACATGGCCTATCA
AGTTCTCGCGCGAAATGGCGGCCAAACCTTTGCGGACTTAGTCGGTCAGGAACAGCT
CGTCAAGCCCTGCAAAACGCCCTGGACGAAGGACAGGCTGCACCACGCCTACCTGCTGAC
CGGCACGCGCGCGTAGGTAAAAACACCATCGCCCGCATCTTGCCAAAAGCCTCAACTG

Appendix A

-331-

CGAAACGCGCAACACGGCGAACCTTGGCGCGTATGTGAAAGCTGTACGCAGATCGATGC
CGGACGCTACGTCGACCTGCTGGAAATCGACGCCGCTCCAACACAGGCATCGACAACAT
CCGCGAAGTCTTTGGAAACGCGCCCAATATGCACCGACCGCGGAAATACAAAGTCTATAT
CATCGACGAAGTGCATATGCTTTCCAAAAGCGCGTTCAACGCTATGCTCAAACGCTGGA
AGAGCCGCCGAACACGTCAAATTCATCTCGCCACCACCGATCCGCACAAAGTTCCCGT
TACCGTCTTGAGCCGCTGCCTGCAATTCGCTTACGCAATATGACCGCGCAACAGGTTGC
CGACCACCTCGCCACGTCCTCGACAGCGAAAAAATCGCCTACGAACCCGCGCCCTGCA
ACTTTTGGGACGTGCGCGCGCGGATCGATGCGCGATGCTTGAGCCTGCTCGACCAAGC
CATCGCCCTAGGTTCCGGCAAAGTTGCCGAAAACGATGTCGCCCAATGATCGGCGCGGT
TGACAAACAATACCTTTACGAACCTGCTGACAGGCATCATCAACCAAGACGCGCAGCCCT
GACCGCCAAAGCGCAGGAAATGGCGCGTGTGCCGTCGGCTTTGACAACGCCCTTGGGCGA
ACTTGCCATACCTGCTGCAACACCTCGCCCTGATACAGGCAGTGCCGAATGCCTTGGCGCA
CGACGACCCCGATTCCGATATTTTGCACCGCTCGCCCAAACCATAGCGGCGAACAAAT
CCAGCTTTACTACCAATCGCCGTCCACGGCAACCGGACCTCAGCCTCGCCCCGACGA
ATACGCCGCGCTTATGATGACCTGCTGCGTATGCTGGCGTTTGGCGCCCTTGGCGGCAGC
ATCGTGTGATGCAATGCGGTGATTGAAATACCGAACTAAATCCCCATCGGCACAAAC
CGCCGAAAAGGAACCGCGCGCAAAAAAGCCCCAACCGCGCCCTGAAGCGGAAACCGCCCA
AACACCCGTTTACAGCGGCATCCGACGAGCAATGCCGCTCTGAAGGCAAACTGCCGAACC
CGTTACCAATCAGAAAAACAACGATATTCGCCCTTGGGAAGACGCGCGGACGAAACCGC
AGCCGGCAGCGCGCAAGCATCGGCAAAAAGCATTACAGCGCATCCGAAGCGGAAACGCC
GCCCAAAAACCAAGTTTCCAAGAACGAAGCAGCCGACACGAAACCGATGCCCCCTTGTC
CGAAGTGCCGTCTGAAAACCCCATTCAGGCAACACCGAATATGAAGCCCTTGAAACAGA
AGCATTTGCACACGAAGCTCTGCAAAACCTTTCAACGGTTACAGCTTTCCGAATGATGA
CTACCTCGTAGAAGACGCGCAGAAATCCACCGCCGATTGGGAACACCGCGCCCTGCG
CGATGCGGAAGAAGAAAAACAACGCGGACGAAAGCAGCAACAACGAAGACCACAGCCATA
CGCCCCGCCGCCGAATTTTCCACCGAAACTGGGCAGCCATCGTCCGGCACTTCGCCCG
CAAATCGGCGCGCGCAAAATGCCGCGCAACACTCCGCGTGGACGGAATACCATCCCGA
CACCGGTCTGATGGTTTTTGGCAATGACCGCCGAAGCAGCGCCACCGCGGACAAAAACG
CCTCGACAAAATCCGCGACACCTTGCCCAAGCCTACGGCTGCAACTCACCTGCAAAAC
CCAAGACTGGGTGACGAAGCGCGCGGAAACCCCGCGATGCAGGACAAGCGCGTCCA
AGCCGAGACAGGCAAAAGCACAAAGCATTGCTCGAAGCCGACCCGCGCACAAAAAT
CCTCCAAGCATTGCGCGCGCAATGGCAGCCGAATCACTGGAATTGGCGGCAACCGGCC
ATAAACAGATATAATGCCGCCCGAACCTTCCGACGGCATTGCCGTTTCCCTTATTCAT
CAAAACAGACAGAGATATTCAGTATGTTTCGAAAAGCCGATTAGCGCGCTGATGAAAC
AGGCGCAGCAATGCAGGAAATATGAAAAAGCGCAAGCCAACTCGCCGAAACCGAAA
TCGAAGCGCAAGCAGGCACCGCCTGGTCAAAATCACAATGACCTGCGCGCACGAAGTAC
GCAAAATCGACATCAGCCCCGATTGATTCAAGAAGCCGCGACGACAAAGAAATGCTTG
AAGACCTCATCTCGCCCGCTCAAATCCGCCGAGGCAAGCGGAAGAACCGCAAAACA
AAACAATGGGCGCATTCACGCAAGGTCTACCCCCGAGTGGGCGACTTCTTCCGCTGAT
CCCCGACCGTCATTTCCACGCGAGCGGGAATCTAGAACGTAGAATCTAAGAAACCGTTT
ACTCGATAAATTTCCGTCGCCGAGGGTCTGGATTCCCGCCTTCGCGGGAATGACGCGATC
AGTTTGCAGGATTCCGCGTGAACGGTAAAAACAGTGAGAATGATAAGAACGCAAAACGG
CAAGAAATAGCGGGAATCCGCGAGGCTGAAGCCACCTACCATTTATACACATCCGTACC
GCTTAAATGCCGTCTGAACTTCGTCATTCCCGTGAAGCGGGAATCCAACCCCGTCGGA
GCAGAAACTTACACCCGTCATTCCCGCGAACCGGGAATCCAGTAACCGAAAAACCA
GGAATCTATCGGAAAAACAGAAACCTCGACCGTCATTCCCGCGAACCGGGAATCCAGT
AACCGAAAAACCAAGGAATCTATCGGAAAAACAGAACCCCGACCGTCATTCCCGCG
AACCGGGAATCTAGAACGTGAAATCTGAGAAACCGTTTTACTCGATAAATTTCCGTGCC
GACGGGTCTGGATTCCCGCCTTCGCGGGAATGACGGCATCAATTTGCAGGATTCCGCGTG
AACGGTAAAAACAGTGAGAATGATAAGAACGCAAAACCGCAAGATAGCGGGAATCCGGC
AGGCTGAAGCCACCTCCCTACCATTTTACACATCCGTACCGCTTAAATGCCGTCTGAAAT
TTCGTCAATCCCATGAAACCGGGAATCCAGCCCCGTGGGAGCAGAACTTACACCCGTC
ATTCCCGCGAACCGGGAATCCAGTAACCGAAAAACCAAGGAATCTATCGGAAAAACA
GAACCCCGCGCGCGTCATTCCCGCGAACCGGGAATCTAGTAACCGAAAAACCAAGG
AATCTATCGGAAAAACCGGAACCCCGACCGTCATTCCCGCGAACCGGGAATCTAGAA
CGTAGAATCTGAGAAACCGTTTTACTCGATAAATTTCCGTGCCGACAGGTCTGGATTCCC
GCCTTCGCGGGAATGACGGCATCAGTTTGACGAGATTCCGCGGAAACGGTAAAAACGGCAG
AATCGATGGGATGCGGCGAGGCTGAAGCCACCAAAACACAAAAATTCGATGCCGTCTGA
AATTTCTGTCATTCCCGTGAACCGGGAATCCAGCCCCGTGGGAGCAGAACTTACACCCC
GTCATTCCCGCAAAAGCGGGAATCCAGTAACCGAAAAACCAAGGAATCTATCGGAAAAA
ACAGAACCCCGCGCGCGTCATTCCCGCGAACCGGGAATCTAGAACGTAGAATCTGAG
AAACCGTTTTACTCGATAAATTTCCATGCCGAGGGTCTGGATTCCCGCGTTCGCGGGA
TGACGGCATATTTTTTGATTTGATATAAAGGGTCTTTGAATTTGTTCAGCAAGTGCA
AAGTGTGACATAAAAGGGCGCAGGATAGAGGCAAAAGCGGCGTAGGTGGGCTGTAGC
AAGTATTTTTTACCCCGTCGGGCAAAATATAGTGGAATTAACAAAAACAGTACGGCG
TTGCCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAGGTACTCAAGCACCAGTGAATCG
GTTCCGTACTATTTGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATTTTTGTTAATCCA
CTATACCAAACTCAAATCAAGCCGTTTCGAGGCGGCTCAAAAAACGGTACTTCGCAGC
AGAAGTACCGTTTATCGGGATTTCAGGTTTTATTCTTCGGGGCGTTCGCCGTCGGTTTCG
TCCTGCGTCCCTTCGGTGATGTGCATTTCTACGCCGTTGAGGGCGCGGATTTTTCGCTCG
ATTTCAATGGCGACTTCGGGATTTTCTTCAGCCAGACGCGGACGTTGTCTTTGCCCTGA
CCGATTTTCGCCCGCTTGTAGTGTACACGCGCGGATTTGTTGATGATGTCGTTTTTC
ACGCGGATGTCGATCAATTCGCTTCCCAACTGATGCTTCTCCGTAGAGGATGTCAAAC
TCTGECTGACGGAACGGGGGGGCGACTTTGTTTTGATGACTTTGACGCGGGTTTCGTTG
CCCAATACCTCTTCGCCTTTTTTGATGGATCCGTTGCGGCGGATGTCGAGGCGGACGGAA

Appendix A

-332-

GAATAGAAATTTACGCGCGTTGCCGCCGGTGGTGGTTTCGGGGCTGCCGAACATTACGCCG
ATCTTCAATCCGGATTTGGTTGATGAACACAACACGCGTGTGGTTTTTTTGATGTGTCCG
GTCAGTTTGGCGCAAAGCTGGCTCATCAGGCGCGCTGCAGTCCGACATGGCTGTCCCCC
ATATCGCCTTCGATTTCCGGCTTTGGGACGAGTGCAGTACGGAATCGACGACTACCATA
TCTATGCCGCCCCGAACGGACGAGTGTGTCCGAGATTTCCAAAGCCTGTTCCGCCGATCG
GGCTGGGACAGGTAAAGCTCTTCGACTTTTACGCCGAGTTTGGGGCGTAACCGGGATCA
AAGCGCTGTTCCGCATCGACAAAGGCGCACACGCCCGCTTTTCTGGCATTGGGCGACG
GCTTCGAGGCGAGGGTGGTTTTTCCGGAGGATTCCGGGCCGAAGATTTCCGACGATGCGC
CCGCGCGGCAGACCGCGACTCCGAGGGCGAGGTCTAATCCGAGCGATCCGGTGGAATG
ACTTCGAGGTTTTCTTCTGCTGCTGCCGTCCATTTTCATGATGGCGCCTTGCCGAAA
CTTTTTTCGATTTGCGCCAGTGCAGCGGCAAGTGCTTTGCTTTTGTGCTGTGACATTGGG
GTTACTCCGGAACAAATGCGGTATGTGGGATGCGCGCAACACGGGCTGCGCGCGGGAT
GTGTATCGTTTTCCCGATGTGCGGGCTATCGGTAATGCTGCTTACGAGGTTGCCATTAT
CGCATATTTCTTGGCTTGGCCGATATGCGCCAGGACGCGCGGCTTGTGCCGAATGGAAT
CTGGATGCCGTCTAAAAGCGCGCGGCTTGTATATAATGGCGGCTGTTTTTCTGTGTGT
GCCTGTTTTATGTGTTCTGCTGCTTGTGTCAAAAATACCGTTATCGGAAGCGGACGCACC
AAAATCGCGTGGCGCTTGTGCGCCGCGATGCGCGCAACTTTCGCGCTACTTGAGCAA
ATCAAAAATATGCCCTTCGATATTGCGGAGTTCCGCGCGGACTTTTGGAAATGCGCGGGC
AGTATCGCGGAAATATTGCACACACGACGCGTCCGCGACGCGTGCAGCAAGCCG
CTGCTGTTTACGTTTCAGCGGATGGCGAAGCGGCTCGTTCCCGTTCGGACGATTAT
TATTTTGAACATGCTGACGCGCTGATCGAAAGCGCCTGCCGACATCATCGACATCGAG
CTGTTTTCCGGCGAAACCGCGCTCCGGTGCAGCGTGGCAAAATGCTCAAAAACCGGCATC
GCCGCCCTGCTGCAATCATGAGTTTACCGCACGCGCGCGCAAGAAGAAATCGTATGC
CGTCTGAAACAGTATGGAGGATGCGGCGCGGACATCTGCAAAAATGCGGTGATGCCGAA
AGCGCGGAAGATGTGCTGACTTTGCTTTCCGCCACGCTCAAAGCGAAAGAGCTTGCCGCC
AAACCGATTTGTTACGATGTCGATGGGGCAGACGGGGCGGTTCAGCCGGCTTGCCGGACAG
GTGTTCCGCTCAAGCATCACGTTTCGGTTCGGGAACGCAAACTCCGCGCGGGGCAAACT
GGCGTATCCGCCCTCGTGCGACACTCGACTGCCTCGAAAACGGCGCAGACTGATTTAG
ACAGCATCAAAACATGATGAAACTCAATCCCCAACAGCTCGAAGCGTCCGCTACCTCGG
CGGCCCACTGCTCGTCTTGGCGGTGCAGGACGCGGCAAAACCGCGGTGATTACTCAAAA
AATTAAGCATTGTATTGTCAATGTGCGCTACCTGCCGATACCGTTGCCGCAATTACCTT
TACCAACAAAGCGCTGCGGAAATGCAGGAGCGGTTGCCAAAATGCTGCCAAACCGCA
AAGCGCGGGCTGACGATTTGCACGTTCCACTCTTTGGGATGAAGATTTCGCGCGAAGA
GGCAACCATATTTGGTTTACAAAAAAACTTCTCCATTCTCGATTCTACCGACGCGGAA
AATCATCGCGCAACTCTTAGCGGTACGGGCAAGAAGCGGTATTCAGGCGCAGCACCA
GATTTCTTGTGAAAAACGATTTAAAAACGCTGAAGATGTGTTTCAGACGGCATCGAA
CATTGGGAACAACAAACCGCACGCGTGTATGCGAGCTATCAGGAACCTTACAAAGCTA
TCAGGAGTGGGACTTCGACGACTTAATCCGCTGCTGCGGTGCTGTTGACGCAAAACAG
CGAAGTGCAGCAAAATGGCAGCGCGGCTGCGTTATCTGTTGGTTGACGAATGCCAAGA
TACGAATACCTGCCAATTTACGTTGATGAAGCTGCTGACCGGCGCGGAAGGTATGTTTAC
CGCGCTGCGCGACGACGACGACGCTCCATCTACGATGGCGCGGTGCCAATGGAACCTT
GCGTAAAATGCAGGAAACTATCCGAGATGAAGTTCATCAAACTGGAGCAAACTACCG
CTCCACCGCGCGGATTTCTCAAAATCGCCAAACAAAGTCATGAAAACAAACCCAAAGCTGT
TACCAAAAACCTTTGGTCGAATTTGGCGAAGGCGAGCGGTCAAAGTCGTTGCTGCCA
AAACGAGCAACACGAAAGCGACTGGGTGCTGAGCCAAATCGTCAAAACAAACCTATCGG
CGCGGACAAACCAATATGCCGATTTGCCCGTGTATACCGGGGAAAGCATCAGGCGAG
GATTTTCGAGGAAGCATTTGCGCGGCGCGCATCCCCCTACAGCTCTCCGGCGGACAAAG
CTTTTTGACAAAGCCGAAATCAAAGACGTGTTGTCTTATGTGCGGCTGCTTGCCAAACC
CAACGACGATCCCGCTTTCTGCGTGCCGTTACACGCCCCAACCGGCATCGGCGATGT
CACGCTGGGCAAGCTCAACACTTACGCGCACGAACAGAAATGCAGCTGTATGAAGCCGC
GCAAAACGAAGAAGCCCTTGCCACGCTGAACAATACCAACCGCAACACCTGCAAACTT
TATGGATATGTTGCTGAGTACCTCGCCAAAGCCGAAACAGCGAAGCGGGCGAGTTCAT
CAACAGCTGCTCGAAGAAATCGACTATGAAACCATTTGATGCAAAACGAAGAAGGCAA
AGCCGGCGAAATCAATGGCGCAACGTGCGGATTTGGTATCATGGTTTGCGCGAAAGG
CGGGGAAGACGCAAAAACATCATCGAACTCGCCAAACCGTGCCTTGATGACGCTTTT
GGAAGGAAAAGACGAAGAAGAACCGATGCCGTCTGCTATCCACGCTACACGCCGCCAA
AGGTTTGGAGTATCCGTATGTTTTCTTGTGCGTTGCGAAGAAGCGGTTTTGCGCGACAA
CGACAGTATCGAAGAGGGCAACGTGCAAGAAGAAGCGCGCTGATGTACGTCGGCATCAC
CCGCGCCAAACGCCAATCACTGACCCACTGCGTCAAACGCAAAAAACAAGGCACATG
GCAGTTCGCCGAACCCAGCCGATTCATAGACGAAATGCCGAGGAAGATTTGAAATCCT
GGGCGCAAAGGCGCGCAACCGATTGTGACGAAAGAAGGCGAGACGCAACCTTGCCGA
TATAATCGGAAGGCTCGACAACTTAAAAAAAGCGCGCGGATTAACCGGAGCCGC
AATGCCGTCTGAAGGCTTCAGACGCGATATTTTTGGACGGCGCGGTAAAGCGGTTTAC
GCCCACAAATCTGCTGCTGTTTTTTCGGCACAAGATGCCCCACGCCGATACCGATAAGG
CGGAACGCGCTTTCGCTGCGGCGAGACGCGCGCATCAACATTTGCGCGACCTGACG
AGAGTGCAGCTCGGGCAATACGGAGGAATAAGTCAGTGTGCGCGTGTATGCGGAAAT
CGTAGGCTTTCAGCTTGAGCGTTACGCTTTGGGCTTCGAGCTTTTTCGCGGTGATTGGC
GCCAAGTCTTTCGGCAAGATGGGGAGGTGTCCGCGAGCTGTCGAGCGCGAGGTCTT
CGGGCAGGGTAATTTCTGTGGAGATTGGAGGCTTTCGCTTTCGCTTTGACGGGGCGTT
CGTCCGTACCGCGCACCAATCATAGAGCGGTATCCGTAGCGTCCGAAATGGTTTTAGA
GTTCCGCCGCGCTCGAAACGGCGCAAGTCGCCCGCGTCCGCATACCCAGCGACTGCATT
TTTTACGCTTTACCTTGCCGACCGCGGGATTTTGCCCAAGGCAAGGGTTTCCAAAAATG
CCATGACTTTGTGCGGCGGCAACAACTGCCGTTTCGCTTTCGCGCAGTCCGACGCGA
TTTTGCGCAGAAATTTGTTGGGCGGATGCTGCGGATGAGTCAACCTGTTCCGCAA
AATGGCGGCACGATTTCTTTGGCAACGTGCGCGCGTAAGGGATGTTTTTGAATTAC

Appendix A

-333-

GGGTAACGTC AAGATAGGCTTCGTCCAGCGACAAGGGTTCGATTAAATCGGTATAACGCC
TGAATACGGCGTGAATCTGCGCGGAAACCTGACGGTACAAATCGAAATGCGCGGGCACAT
ACACCGCTTGGCGACACAGCCTTTTCGCCGTTGCCACCGACATCGCGGAATGCAGCCGGA
ACTGCCGTGCCTCATACGATGCGGCGCAAATCACCGAACGCGCGCCCTCCCACGCGACGA
CCACCGCGCGCCCTTTCAAATGCGGCTGTTCGCGCAGCTCTACCGATGCGTAGAATGCGT
CCATGTCGATGTGGATAATTTTGGCGTGAAGACATCGGCTCTTCTGAGGATAAAAGGGATA
TTCTACTGCCGGCATCGGGCAAATTCCAAATATACGCCCCGATAGACCTGCCTCCATAAA
AATGCCGTCTGAAACATACCTGTTCAGACGGCATCCGCAAAACTACGGTTTCAATTA
AAACTGCCAATCCAGTTTTCATGCTGACAGTGCGCGGCTCTCCGTAGAAGTTGTTTGCGCC
GCGCGTACGGTTGTAGTTGTCTCAAATAAGTGCCTCCGTTTAAAGTTCGTACCGATGAG
GCTCAATTTGGCGTGTTCGCCAATTCGTAACGGACGAAACCGTCTATCAGCCCGTAGCC
GCCCTGCCTGATGTTATACAGAGTGCTTGTGCCGCTTGTGCGGACACGCCGCCGCCGAC
GGTCAGCCCCGTATTCGGTATATGGAAGCTCGTTCGGAACGGAATATGTGCACGGGTGT
GAAATTTGCTGAAGTTGTACGGGTCTGCACTGGAATTTTGGCAAGCGCTTCGGCGTTGAC
TTCGGCGCGCTTTTGTAGCGGCTCTTGTGTAGGTGTAACCCGCAAGACTTTCCAATC
TTCGTTCAACTCACCCGACAACCTCGAATTCGCGACCCCTGCTGACCACTTTGCCTATCCG
TTTGGCAACGGTTTGGAAACGACCCCTGCTTGCGCGCTGCTCCGGGAACATAGCCGAAATC
GACGACCGTGCCTTTTCTGTTTCGAGGTAAACAATGCGAACGAAGCATTACGCCGTCC
TTGCAAGAACCGCCCTTTCCAGCTACCTCATAGTTTGTGCCGACCAAGCGGTAAAC
GGTTTTTGGCACTTGACATGACATATCCTGCTGTTGAAGATTTTGGTATAACTTCCGTA
AATACTCTGTTGCGGTGTCAAGTCATAGGTAATGCCTGCATAGGGCGTCAATTTATGACC
TTGCATCTTGGCGGTGTAATGGTCTGATCCGCCCTAATGCTCGATGCCGTCTGAAATC
GCTTGCCGGCTGCCCATAGCGGACAGGCATATCTTGGTTTGGCAAGTCTCATAGCGCGT
GTAGTGCAGCCCGCCCAAAGGTGCAGTGCGCCGTTACGTTGAAACGCGTCTGGCAGT
CAGCGAATGGGTTTGTGTTGTTGAGGTATTTGGCGTAGTTATACAGCGCAGGAACATG
GTCGCTGTCACCTTTGACGGTTTTTCAAACCGGCGACCGTACCGGAAAAACCGGTAAAGGC
AGGCGTGCCGTCCGGATTGGTCTCTGAACTTGTGCTTTTTCGTCAGCTCATATAC
ATCGACATATACCGGTGTCCGGCTGCCGCTGTATTCGTCATAGTAATACACCTGCTTGCC
TTCGGCATCGAGCTTGGGCTCGGTTTTATTTTCTTGGCGTTCCTGCATTTCTCGGCATA
AACGGTACGGTTGCCTTTTTCATCGTACGCTGCCAATCGGGTTCTTTATGCCCTGAC
CAAAGGAGACGACAAATCGCCGTCGGCTCCTCTGACAACTTCCCGCATACACGCCGTG
CGTTGCCCGCTATTCCGACGTACTCTGTAGCGCGTTCGTAGATTCTAGATATTCCGA
ACGTATCTTTTCATCACCGTAGGCATAGCCGACAAAGAAATCATGCTCCCGCCCGAACAG
CCCATATGTGCGGTCAGGTCAGGTCAAGTTTAAATCCCATTTGGCGGTCTGCTTTGGTATGCCG
CAACGGCATATAACTGTATCGTCGGTTGGCGGTAGCCTTCCGATTAAAGGAAGAGTCATA
CAGGCTGTTTGGAAAACGTTGTGCGCATATTAAAGATGCCCTCCTTCGCAAGGGCTTT
ATCGACAAATTCGCGCTTGTGCGCATCAACGCCGGATCCCCCAAGAACCTTGACAGAT
AAAGTCCAGCGCGCAAGATCGCCGTCGGCTCCTCTGACAACTTCCCGCATACACGCCGTG
ACGGCGGCTGCGTACTGTTCGAAAGCAGTATTATCGAAACGGTTTTTAACAAAATCGTC
TTTGGCGTCCCGGTATCTTGGCGGTTTCATCACGATATGCTTTCAGTTTCTCCAATGC
CTTATCTTTCCGCTCGAACGGGATGACTTCGTTTTTTTCAGTCAAAAAGCCTACCGCATC
CTCACCCGACAAACCCGCCCATATTCTGTTTTTCAGAAAAAACTGCCCCACCTTCGCATC
GGATTCACTTCTGGTATAGACACTTCGGCATTAGCTGCCAACCGTTGTCAAACACATG
TTTGAATCCTGAGAAAAGGTTGTATTGTGCGCACTTAACCGCGACCAATCCTCCCCAA
ATAAGTGTGCGCGCAGTTGCAAAGGCCGGTTGCAGGCAGGCGTTGAAGTGAACGGGGC
AGTTTTCTGATTTTCACAGGGCAAATAATGCCCGAAAAATCAGGAACCTCCCTACTCTT
CTGATACATGCCGCCCAAAGTAAGCACACTGCTGTCGCCCGCATCGGCTTCGGCAATGCC
GTAAACCATATGTTTCCGTGCCCAAACCTCGGTCTTTAAACGATTTTATATCTTCCCG
ACCCACCAACCTTCCGCGTAAGGTATTCGCTTATTCAGGCTGCCTGAAACATCCAACAC
TGCACGCCGGCTGCCGCGATGGTCGGCGGTGCTCCTCCGCTATGTTTGAAGAAGCGGT
AGGTCACCTACGGGATCAAGTTGACGGTTCTCCCGGCTCTGAATTGGATTGGGTCAACCC
CGTTGCACCCCGTACAACCTCAATATGGTCATAAACCGCCAAATCGGTACTCGGAGACAC
GTCGATTTTCCGCGTATATCCCGAACGGCTGCAACATTGACGGTCATACCGTCTTCACC
AATCTGATCAATATAGAAACCGGTGACAAAAACCGCTCTGCAAGCCTGAATCGCGCAC
AACGTTGACACCCGCTCGTGTTTTTTCATTGCCTCTTCAAGCGTATGCACCGCTTATCGTC
AAGGCGGCTGCGCGTGATGACGCTGACCGACTGCGGCGTATCCTTGCCCGCAATCCTCAT
ACCTGTGGCGGTGGACATCCGATCTATCGTATAAGAACGGGTCTTTTCGGTCTTGCCCAA
CAAAGCATGAGAGCCGCGTACATGACCGTATCCAGACTGACGGTATGCGGTCTGAAAC
AGGCACAACACCGTCTGCAAAAGAACACCGTAAGCCGATAACAGCATAACGGTCAGAAT
TTTAAGTGAAAAATGATTTGATTCATAGAGACCTCTGTAATATGCAAGTGTGCAATCG
TCCAAAGGCTCTCACAACTGTTTTGATTTTTATATTAATGAAAAAAGTAATCTCAA
TTAAATTTATAGATAGGATTGTATTTCCATTTTGAACAAAAACAACTACTCCTTACCGT
TTATTTCAAACACGATAACATTGTATTGAAAAATATCCGAATTTAAATACAGACGCCA
ATGCAGAAAAAACACCCAAATTTGGCTATAATCCCGACAAACACACTCAAGGACAACAAC
ATGGCAGCCTCGCCCGGAAGCAATTCACCGAAGAAAAAGATTTTGTGGGTCAACACCCAC
ACGCCGAAACTCATCACTTTGCCCATCAGCCGTCCCGAATCCTACCGCTTTAAAGCCGGA
CAGTTCTCCCGACTCGGTTTCTACGAAGGGGAAGGTTTCATTTGGCGTGCTATTCCATT
GTTTCCGCGAATATGCCGACACGCTCGAATATTTGCGGTACTCATCAAGACGGCCCC
ATGTCGGGCCGTTTCCGCAAAATGCAACAGGGCAACACCATCCTGCTCGATAAAAAATGCC
ACCGGCTTCTCTGCCCCGAACGCTTCCCGACGGCAAGGATTTGGTGATGCTCTGCACC
GGCTCGGGCATCGCCCCCTTCTTTCCATTCTCGAACAACCCGAAATCCGTCAACGTTTC
GATACCGTCAACTGATACATTCGATCTTTTCCCGAAGAAATGATTTTCAACGACCGCA
CTCGCCGCAATTGACTGAACATCCCTGGTAGGCGAATACGGACACTCTTTCCGTTTCGTC
CCTGTTACCACCCGTGCCGCCAACCCCTCGGGCTTAAGCGGAAAAACGCATTCGGGAATC
TTAAAAACAACAGCATCGAACAGGCGCTGCATACCAAGTTACCCCGGAATCCACACGG

Appendix A

-334-

TTTATGATTTCGCGGCAACCCGGAAATGGTCAAAGACACTTTCCAAACGCTGCTCGACATG
GGTTACGCCATGACCGCAACCGCATTCCTCGGTCAAATCATGATGGAACCGCTTCTAA
AAACCACCTGCTTGTCCGATGCCCTTCGGATGGACGGGCAAACCGACACGGCAGCAAAAAC
CGGTTCGGCAAAATGCCCTCTGAAAAAATTCAGACGGCATCTTCGGATACATTACCTGC
AAACGGCAACACACCGGCACAAACCGATTAGGCAATCAACACGGTGACGGCTGTTTACAT
ACTTGCCGGCTTTACCAACCGATATCGATTTAACCGATTTCCTTAATATTTTTCCTGTC
CGTTTTAAACTTCGCTTAAACGCATCCGGTAAATCTTTATCGAAATACCAAGCCCGTC
ATCCATTTCCAATGCGCCGCCATTCCTGTCAGAACGACTTTTCCCGCTCAAAGGATC
GGTTTCGGTAATTTCCACCTCATGCATTTTCCCAATCCAAACAGGCAACTTGTGTGC
AAACGCCAAACCTGTTCTGTCAGAACGGCCGACGCTTATCGCATCGGCTGAAACATA
TACGGGACAAGGCTCATCTCTGCTAACCCTCCGGAAGGATACCGGCTGCGGCAGGACA
CAATCCGTATGTTTCGCGCCACGACGACAAGCCCGTCTCGCTGCCCTTTTATTGGCAAA
TAATCCGGTAGGCGGATTATCCGTACACCGTTTTCAAAGCCGCTGTTTTCGCATTCAA
CATGCCGTCTGAACCTTTTCAAACCTGACGGTCTGTAATGTTTTAAGCAGATTTTGGC
AGACACATAACAATCCGAATGATAACGCCGACCAATTCCGCTTTAATCTTATATGCATG
CAGGCTGCCAATTCGCGGAAAAAACGGACTTCCTCCGTATGACCAATCAAACGGGGC
TTTTCCGGAGTCCAATAAGCCGAAATCTCGCTATATACCGTTCAAACGTACCGATATA
ATTTACTTTCCCTCGCGCTGAAACAAGCCAGCACCCCATACCGTCAGGCAACCGTA
CAACTGTTCCCTCAACCGTTTCGGGCAGCGCGGACGAGCGGTTTCGGATTTCATAACG
GAAACACTGCCTGATCCATGCCTCAACCCCGTGTTCGACAGACTGTATTCAAATAATC
ACACAATGCCGATACATCCGCCATCGCACGATGCCTGTCTTCCACAACAATCCCAACCT
TTCGATGATACTGTCCAGGCTGTGCTTGTAAATTCGGGATACAGACACCGGGACAGCTG
CACACTGCACAAAGCAGCGATGAAAATCCGATACCCGCACGATGAAACTCATGCTTAA
AAACGTATAGTCCGAAACGGCTGTTATGTGCAACCGACACACAACCTTCAATACCGAAAA
CAACTCGCCGGCAATCTCTGCAAAAACAGGCGCATCGGCAACCATGCCGTCTGAAATCCC
CGTCAGCCCCGCCACAACTGCGGAATCGGTTTTTGAAGATTAAACCAACCACTCATGCCT
CACCACCTTCCCTGCTCAAACCTGACCAAGCCACTTCGGTTACCTGTCTTCATACAG
ATTGCCGCCCGTTCGATTCCAAATCAACACCGGCAACAGGATTCCAAACCGTAAAAATAC
CTTTTCAGCAAGGGCCAGCGAGAAGCAACAATCATTTTATCTCTTAAATTCAAACAA
CAAACCAATATTTTACACTTTTAAAGGCATTTTCATCCAACAAAACAATTGACAGAATCCGA
TGATTACCCTAAAATTCGAATCTTCTTGACGCGCACCCGTAGCTCAGTTGGATAGAGTA
TCTGGCTACGAACAGAGGGTCGGGCGTTTCAATCGCTCCGGGTGCGCCAGTAAGAAAAAT
ACAATATGCGCCCATCGTCTAGCGGTTAGGACATCGCCCTTCACGGCGGTAAACGGGGT
TCGATTTCCCGTGGGCGTGCCAAATCTAAATCCCGAGATTATCGCTCGGGGATTTTTT
ATTGTCTCAGCATCTGTTACCATATCTTTACCTACCCCTTCATCAGAATCTCAGACGT
AATCGAATCATATTCAAACCTTTGCCGTGCAACCGATATCCCATAACCGGATGCGGTGT
CCGTCCAACATTTTACCCGATTGAAACGCGCTGATATATTGCACCCCATCAACGTGGCATT
ACTTTTTCTTAACAATCTGACGCTTTGACAGCAACTGACTAGGGCTTTTTTATGCCATCATCA
ATTTATAGTGGATTAACTTTAAACCAAGTACGGCGTTGCCTCGCCTTGCCGTACTATTGT
ACTGTCTGCGGCTTCGTGCGCTTGTCTGATTTTGTAAATTCATATAATATTTCTCT
CCCGATTGAAACAGGCGTAAACGAATGCCCGAAGCTCCGGTCTTCTTGTTTACCGC
GCGATATTTAGAGTATAATACCAATTTGAGCAATAGTTCTAAAACAGTTAGAACCATT
TTCATGAGCCTGACTGATTCGTACACTCGGAGAACTGATGCGAATATTTTGAACCTT
TGGTTATTCGTGGAATAATCCCTTACCCCATCGTGCAAGGCGGTATGGGGTCCGTGTT
CCGCATCGGGTTTATCCAGCGGTGGCGGTGAAACCGGTATCGGAACGATTGCCAGTG
TGGATTTGCGCCACCTTCACGAAGACCTACTCGCGGAATCACAATCAATCCGAGTGAAG
AGAAATATACATCTTTGAACTGTACCGCATTAGACAGGGAAATCCAAAAGCCAAAGCG
CTTCAGAGGGAAGGACTGATTGCGGTCAACGTGATGAAGGCGGTCAAAGACCACGCCG
CATATGTCCGCCAGGCTTGCGAATCAGGGGCGGATGCGGTGTAATGGGTGCCGCGCTGC
CTTTAGACCTGCCGGAATGACCGAGGGCTATCATAAAGATGTGCGCTGTGCGCGATT
TGTCCGAATCGCGCGGTATTAATATCGTCTTGAACGTTGGATGAAAAAGGCATATTGC
CCGATGCGATTGTAGTCCGAACATCTTGCCACCGCGCGGACATTTGGGTGCATCAACCG
TTGAAGGCGTAAACGATGCCAAGTTCGACTTCAAACGCGTATTGAGGAAACGTTTGAAG
TTTTCAAAGTTTAGGGCTGGAAGCGAAAAAATCCCGCTTATTCTTGCGGGAGGCATGG
CAAATTTGAAAAAGTCAAACCCGCCCTAAAGAACTGGGGAGCATCCGCCGTTCAAATCG
GTACGGCTTTTGCCGTTACCGAAGAAGGAGATGCACACCTTAACCTCAAAAAACGCTCG
CCGGTGCGGAAATGAAAAAGTAGTCGAATTTATGTCTGTTGCCGTTTGCCGGCGCGCG
GTGTCGCGACCAATCTAGACAGCTACATCAAGCGTGAAAGCAAACCTCAGACAAACG
CCAAAGCCGACCCGCGCGCTGTACCAAGGTTTAACTGCCTAACCAAGTTGCGGTCTGC
GCGACGGGCTTTCAAAGCAGGACAGTTCTGTATTGATATCCAGCTTGCCGCCGATTC
GTGGAGAAGTAGATAAAGGCTGTTCTTCAGAGGTAAAGACCGCTGCCCTTCGGCAATGC
CATCCGACCGTCCGCGAGACGATACAATATCTGCTGACGGGGAGCGAACCTGTTGCAAC
GCTCGGACGCTGACATCAGGTAGGATTTGATTTGCAACAAATGCCGTCTGAAGGCTT
TCAGACGGCGTTTTCAGGCTGCGTTCGGGAATAGTGTTAAAAAATAAACGGGATGAGAT
ACATTTATTTCTGTCGCAAAATCAAACCATCGCGCCGAATGATCAATAATGCCTGCAC
GGCATTACATCTGGCAAAGCAATGCAATGAAAACACGGCTTTTTTATTGCTTTCAGTAT
TATTGAAAGCTTGTCCATCGGGGTCAAATCGACCGCATTCGCTTGGCTGGTAATCCATT
TGTTCTCGACGCGCACACGCTGCCGCTCCTCCACGCGCACATACCAGTGGTTGGTTCG
GCGAAAGGGTTTTGAACACCGCTCATATTCCGCCCTGCCGTTCTGCGCGCTGCCGACGG
GCTTGAGGGCGACGGTTTGATCGTCCGCTTGCGGGTGGGTGCATCAGCAGCAGGTTCA
AAGGCTGTTTGCCGTCAAACCTCGCCGCCGACAAACACTTTTGCCGCTTCATATCGGGG
AAATGAGAACCTGCACCCCGATATGCCGCTGACGCTTCTTCATCCCGATGAAGCTGGA
TGTCGATATGTTTGCCGCTTTATAATAATCGTCCGTAACCAATCTGTGCGGTGCTGCT
GCGCGCAAAAAACATAGCGACGCTGGCGATGACGACAAAAATCGGCCCGCCATCAAGA
TCCACGGCCAGACGTGTTGTACCAAGGTTGATTGGAGTGTGTTGAGACACGGTTATTC

Appendix A

-335-

TCCGATAAAGGTTGCATCTTCTTCCAAGACGACCGGCTTGCCGTCGGGCGCGCGCTTTC
GCGGTATTGGAAGGTAAATTCGATAGGGTGGCTGCCTTTGTCCGCGTATTCCGGAATGGT
GGACACTTGGACCGGAAGGTTACCGTTTCGCGCGGGGCAACCTTGATACCGCTTCGGG
CAGCCCCGTGAGGGCGATTTCGTCAAAGCCTTTGACACTTGCAGTAATCAGCTGTTCTTT
TTCACTTTGTGTTGATGATACGCAGGCTGTATGCGTTTTCAGCCAGCGCTTTGGCGTTTC
GCGCACCAGTACGCCACGGTCTTTCAAAATATCGACCTCGACCATTTTGCGCGTGGACAA
ACCGGCCAGGAAGGCAATGATAACTAACGCCAACACCGCGCGGTAACTGCCACGCGCGG
TCTGAGCAGCGCTTTTTAATGTCTTTTTCAGAATATTCGTGTTCCAGCGCGCTTTCGGT
CGTATAACGGATTAATCCGCGCGGATAGCCCATTTTGTCCATAATCTCATCGCACGCGTC
GATACAGCGCGGCGCAGCCGATACATTGGTATTGCAGACCGTTGCGGATGTCGATGCCGAC
GGGGCAGACTTGGACGCACATCGCACAGTTGATGCAGTCGCCCCAACCCGCGCTTTCCTT
ATTGACCGTTTTCTTGCGCGCGCGCGCGGTTTCGCGCGCTCCGCGTCATAAGAAACAAT
CAGCGTGTCTTGTGCAACATCGCGCTTTGGAACGTGCATACGGACACATATGCAGGCA
TACTTTTTTCAGGCAATAATGCGGGAAGAAGGTGATAAAGCCATAAAACGCTGCGGC
AAACATCGCGCGCCACCTGCTGCTCCAGTGAATAAATCGGGAACGAACTGGCGGATAGG
GACAAACCAGCTTGCAACGTGATGCCCCGCCAGCGCAGACAAGGAAATCAGCAGGTA
TTTGGTGGCTTTGATGCGGATTTAGTGAAATTCCACGGCGATTTTCCAGTTTCAGCGC
TTTGTCTTCTATCGCTTCGACAGGTTGTCAATCCACAGCATAATTTCGGTGTAAACCGT
TTGCGGGCAGGAATAGCCGACCCAGCTCGCCCTGCAATCGTCGTCACCAAAACAGCCC
GAAGCGGCAAAATCAGGCAAGGCAAGGTAATCAAATCGCCACCCCCAACGACAA
TCCGAAAATGAAGAAATGCCGTTTCGGGGATATTGAAAACGACGGCTGCTGCCGCTCCA
GTTGAACCCACGGAATGACGTAAACACAAACTGCGTCGCCAATACGGCGCGGATACGCAG
TTTGGCGAACCGTCTTCCGCTTTTGGGATGGATGCGTTTCGCTTCGGGATGGATTG
AATCACGCTGGCTCGCGGATCGAATGTTTTTTTGTCTTCGCGCGCGCTTTGTTTTGTT
GGACGTGCCGATTCCGGATGCCGACTGCCGCTTGGTTTTCCGTTGTCATTCTGCATT
CTTAGATTTTTGATTGATGGTTTGCCCGTTACCGCGCGCTTGTCTTTCAGACGTCATT
TTTCTTGTTTTTTAAGCGTTGTGTTTCAAGTTTTTGAGAAATCCGTTTTTCCAAAATA
TATTTCCGCTATTGTACAACCTTTATGCGCGCTCCGGATGTATGGGCGGATACATTCCC
ATCCGATCAAAACGCTTGATTTTACCTTACCGCCGAAACAAATCCGAATACGGTTAA
AAAAAAGACTAAAAAACCGACACCCCATATCGGCAGAACCGACGGCGCAAGCTCATA
AACAAACGCTATCGACAAATCCGGCACACAATCTATAACTTTTATTTCAAAAGGAATAAT
GGCAGGTTTCGCGCGCAATCGAAAATCCTTCCCGCGCTGTCCCTGCGCGCGCTTCCC
ACGCGTCCGCGCTTTCTTGAAGCATAGCGAATCGGGCGGATAATCAACGCTTTCGGAT
TATCCACTTATCTGAAACACCGACGAAGGAAATACAAAATGCTCTCAACTGGCAACGCAA
TCCGCTTCTCTCGGCCGATGCCGTTCAAAAAGCCAATTCCGGCCACCCCGCGCGCTA
TGGGTATGGCGGAAATGGCGGAACATTGTGGACGAAATTCCTCAATCACACCCCGCCA
ACCCAAATTCTCAACCGCGCACCGCTTCGTCCTCTCAACGGCCACGCGTCTATGCTGT
TGTACAGCCTGCTGCACCTGACCGGCTACAACCTAAGCATTGAAGACTTGAAAACTTCC
GCCAATGACACGCAAAACCCCGCCATCCCGAATACGGCTACACCGACGCGGTGAAAA
CCACGACCGCGCGTTGGGGCAAGGGATTGCCAACGCGGTGGGTATGGCATTGGCAGAAA
AAATCCTTGGCGCGCAATTTAATAAAGACGGTTTGAACATCGTCGATCATTAACACTACG
TCTTTATGGGCGACGGCTGTCTGATGGAAGGCGTATCGCACGAAGCCTGTTGCTCGCCG
GCACCTTGGGCTTGGGCAAACTGATTGTTTATATGATGACAAATATTTCCATTGATG
GTAAAGTGGACGGCTGGTTTACCGAAACATCCCGCAACGCTTTGAAAGCTACGGCTGGC
ACGTCGTTCCCAATGTAACGGTCATGACACCGCGCCATTCAAGCGCCATCGAAGCCG
CACGTGCCGAAACCGGCAACCGTCCATCATCTGCTGCAAAACCTTAATCGGCAAGGCA
GTGCCAACAAAGAGGCGACCAAAAACCCACGGCGCACCTTTGGGCGCGGACGAAATCG
AAGCCAGCGCGCAACATTTGGGCTGGACTTACCCGCGCTTGAAATCCCGCAAGAAATTT
ACGATGCGTGGAATGCCAAAGAACAGGCGCGAACTGGAAGCCGACTGGAACGAATGT
TCGCGCAATATCAAGCCAAATATCTGCGGAAGCGCAGAAATTTGTGCGCGTATGGATA
AAAAGCTGCGCGCAATTTTCGATGAATACGTTCAAGCCGCTTGAAAGAGTGTGCGCCA
AAGCCGAAACCATCGCCACCCGCAAGCCAGCCAAAACAGCATCGAAATCTTGGCAAAAG
AGTTGCCGTGAATTTGGTAGCGGTTCTGCCGACCTGACCCGCTCAATCTGACCGACTGGT
CAAACAGCGCTCCGTTACCCGCGACAAGGCGGCACTACATCCACTACGGCGTGGCG
AGTTCCGGCATGGGTGCGATTATGAACGGTTTGGTATTGCACGGCGCGTAAAACCCCTCG
GCGCGACTTCTGATGTTTACGCAATACGAGCGCAATGCCCTGCGTATGGCTGCGTTGA
TGAAAATCAACCTGTATTGTGTTTACCACGATTCCATCGGTTTGGGCGAAGACGGCC
CGACCATCAACCGATTGAGCAAAACCGCCACCCCTGCGCTGATTCCGAATATGGACGTAT
GGCGGCGTGCACACCGCGCAATCTTGGTGGCTTGGGCAAGCCGTCAAAGCCGCGG
ATCACCGCTCTGCTGATTTTACGCGCTCAAACTGAAATTCGAAGCGCGCAGCGAGC
AACAACCTGAACGACATCAACGCGCGGCTACGTATCAGCGAAGCCCAAGGCAACGCCC
AAGCCGTATCATTTGCCACCGGCTCAGAAGTCGAGCTGGCTTTGGAAGCGCAAAAGCCC
TCGCGCGCAAAACATCGCGCTGCGCGTCTTTCCATGCCGTCCACCAACGTATTTCGACC
GCCAAGACGCGCGCTATCAAGCGCGCTCTGCGCAAGGCTGCGCGCATCGCGTAG
AAGCGGACACGCGCGCGCTGTTACAAATATGTCGGACTGAACGGCGCAGTCGTCGGCA
TCAACCGCTTTCGCGCAATCCGCCCCCTGCCGATTTACTCTTCAAAGCATTCGGCTTTACCG
TGGCAATGTGGTTGATACGGTGAATCCGTGCTGTAACCCACACCTAAACAAATGCCG
TCTGAAACCAATTAGGGCTTCAGACGGCATTTTTATATTCTCGCGGCCATGATGCTTCT
CATCCCACCAATCTCCATTATAATATTTGCGAATCACTCTTATTACATTTCAAAGGAG
AAACGCTATGAGCACCCTGACCAACACGACGATGGGCAATGTCGAAGTCCCATCCGAA
CCCTATTGGGCGCGCAGACCCAGCGCAGCGCAACAATTTCAAATCGGTGGCGAAACC
TGCGCGCAGCGTTGATTTATGCTTTGGCATTTGGTGAAGGCGCGCGCTGCCACCAAT
GTTTCCCTCGGTAGGATTAGCCTGAACAGCGGATTTGATTACGAGGCGCGGATGAT
GTGTTGAGCGGCAAGCTCGACGGGCGATTTCCATTGGTAGTGTGGCAGACCGGTTCCGGC
ACGCAGTCCAATATGAACATGAACGAAGTGTGGCAACCGCGCCAAACGAAATCGCGGCT

Appendix A

-336-

ACGGGTTTGGCGGCTTATCAGCCCGTCCATCCCAACGACCATGTGAACCACGCGCAATCG
ACCAACGACGCATTCGCGACCGCTATCCACGTTGCGCGCGGATTGAAATCAACCGCCAC
CTCATCCCGCGCTTAAAGCCCTGCGCGACACGTTGGACAAAAAGCCCAAGCTTTCGCC
CCTATCGTCAAAATCGGCCGACCCACTTGCAAGACGCGACGCGCTGACTTTGGGACAG
GAATTTTCCGGGTACGTTTCCAGCTTGATCAGGTTTAGGCCGTCTGAACGATGCGCTT
AAAGACTTGTATGAAGTTGCTTTGGGCGGTACGGCGGTGCGCACGGGTTTGAACAGCCAT
CCCGAATACGCCGAAAAAGCCCGCCAAACTCGCCGAATGTCCGGCTTGCCGTTTGTG
AGCGCGCCGAACAAATTTGAAGCCCTGGGCGGACGCGATGCCGCCGTTCGCCGTTTCGGG
GCATTGAAAACGCTGGCGGCAAGCCTGAACAAAATGCCAACGACATCCGTTGGCTGGCA
AGCGGCCGCGCTTGGCGTTTGGGCGAAATCAAAATCCCGGAAACGAGCGGGTTCTGTCC
ATTATGCCGGGCAAGTCAACCCGACCCAAATGCGAAGCAATGACGATGGTGTGCTGCCAA
GTGTTTCGGCAACGACGTTACCATCGGTATGGCGGGCGCGTCGGGCAATTTTCGAGCTGAAC
GTCTATATGCCCGTTATCGCCTACAACCTCTGCAATCCATCCACCTGTTGGGCGACGCG
TGCAACAGCTTCAACGAACACTGCGCCATCGGCATCGGAACCCGTGCCGAAAAAATCGAC
TATTTCTGTCACCATTCCTGTATGCTGGTTACCGCATTAACCGTAAAATCGGTTACGAA
AACGCCGCCAAAGTGCCTAAAACCGCCTACAAAAACAACAAATCGTTGCGCGAAACCGCC
GTTGAGTTGGGCTTGTGACGCGGCGAAGAATTTGACGAACCTGGTCGTTTCTGCCGATATG
GTTATCCGCGCTAATCCTTCCCTCAAATAAAATGCCGTCTGAAACCTCGTTTCGGACGGC
ATTTTCCGTTGGCTGCAAACTAGCGCGCTTGAACAGCCTGTCCCCACCGCGCGCGTAA
CCGACCCCGCGACCACTGAGTGCCTGCATAACCCAAACCGTTCATATCCGGCGCGG
CAAAAGTATCAGGCATCACATAATGCCCGAGCAAGAAAAATATTACGGTAAACACGGGGA
GCAAGGTTGTTACGCGCTGACTTTGGAAGCCTCCCAATGTTTCAACGCTTCGCCGAACG
AGCCGTAACCGATTACGTAATCAAGCAGCAATACGCAAAACAAACCCACGCCAACGTAC
CGTCCAAACTTCCGATGTTGCGCGTTTCGGCAACCGCGAGGAACACGGCGCGCACTTGCCG
CATAATCAACAGCAGAATCTGTTGCGGCCGAATGCGCGGACAGCAGCTTTTGGCGCA
CGGCATAACACCCCATGCCATATGCTGCGCGCACACAGCAACACGCGCTTCGCATACG
CGCCCAACCCGACAACTGCGCGAATTTATCGTTAAAAAACATAAGCAAAACGGCAAGCA
GCAAAACCAAGCGATTCTTCTGAGCGGCGAGTCTCCGGTCTTTAAACACCAACACACCGA
CAACAATCATCTAAACGGCGAAATCTGCCACAAACCTGCGTCTGGTTCGGCGAAATAT
AATGCAGCCCTTGGGCAATCAGCACAAGTTTGGCGAAATGCCCGCCACGCCGAGCAGCA
GCAGCCTGAATGAGCACCAGAAAGAAAAATCCGCGCTTCGGCAGCGCCCGCCAGTGCCA
GCAAAACAAACAATACCGCGCGCGCCACGGTAAACGCAACCCACACGCGTCGGCGCAT
CGACAACCTTCAATACCTGCCGCGCGGCAATCGGCGAGCTTCCCCACGTCATCGCCGCCA
AAAGTGCCAACGGCAAGCTTAGGAGCGGCTTTGGTTTTCATCCTGATTTTCTATTTT
TAAACAACCGTATTGCCGAGCATGCCGTTTGGCGCATCGGGCAATGATGGTTCAAGCG
TTTGGCGTTTGATTCCAACCTTTGATTTCAAACAAACCGCTGAAGCTCGGCTATTGCT
TCGGCTATTTGAAACACCGCTGAATTTTAAATATAGTGGATTAAACAAAACAGTA
CAGCGTTGCCCTCGCTTACCTCAAAGAGAACGATTCTCTAAGGTGCTCAAGCACCAGTG
AATCGGTTCCGTAATTTGTACTGCTGCGGCTTCGTGCGCTTGTCTGATTTTTGTTA
ATCCACTATACCGTCTGAAACAGCGGGGACGTGCGGCGAGGCATCACTGCCCTCAAACGCG
CCGAACGGCGCAATCGCAACGTTCCGCCCAACGCAAGGGCGGCAACAAGCCGGGCCAA
TGCAAAAAGAGAAACCTGCCCGTAAGGTTTAAGGTTTCTCCGTCCTTTATGATTTCC
CTCCGCGAGGATGTCCGGCCGTAAATTCAGAACGGGATATCGTCGTCAATGTCCTCGAC
CGGGCGGCGCGCAGGACGGGTTGGCGGCGGCGCGGCTGCTCTTGGGGATGGGA
CGGCGCGTCCGAGGCGGGCTGCCGGCTTTGCTGCGCGGGCGTTGGTAAGCCTCCTGACT
CTGACCGTAACCTTCTCGTAAGCGCACCGCGCTGTTTTCAATGCGCCCGCCCAACAT
TTTCATTTCTGTTGGCGACAATATCGTAAGCGGTGCGTTCGATGCCGTCTTTGCCTTGGTA
TTTGGCGCTTTGGATTCTGCCTTCCAAATAAACAGCCCGCTTTTGGAGTATTGCC
GGCAATTTCCGCCAGTTTGGGTTACATGGTGATGTTGTGCCACTCAGTACGCTCTACAG
TTGGCGGTTGGCGTCTTCCAAGTTTTCGTGGTGGCGACGCTGAATTAACAAACCGCTC
GCCGTTGGCATATAGCGCATTCGGGATCGCGTCCGAGCGGCGGATGAGGATGACTTT
GTTCAATGACATTTTTTAACTCCTGTGATGATTTTTTCAGCGGCGAGCCTGATCGAAAC
CTTCTGCAACACTTTGAGATAGACGGTCTGCCCGTCGAAACTGAAACCGATGTCTTCCAC
ACCCTCAAGCTCCGACAAGGCGCGGTATAACCTTCTGATTGCCCTGCCACACGCGGCC
GACAGGTAACCTGAGGTTTTTACGGGCTTGGGCGCAGGCGATAAACGGCAATTACCAG
CCACAGCAGCATCAATATACTGCAAAAGGCAACACGCGGAAAGCCGTATTTTTGAAA
CAGCAAAACCGCTGCCGCGCGCGCGCAACAGTCCGAGCGACTGCATCGTGTGTACAC
GCCATCGCCGTACCTTCAGGTGCGACGGCGCGATTTTGGAAACCATAGACGGCAGGCT
CGCTTCCAACACATTAACCGGATAAAGTAAACAACCAATAAGCGGTAATCAAGCCTAC
CGAGCGCATACCGGACAGCAACCGAGCTGCGCGCGCGCAATACAGACGATACCCAAAAC
AAAAACCTGCTTAAGCTTGTGCGGTCTCGCGGACGATAATCAGCGGAACCATCACAC
CAAGCCCGTAATGGTCAAGGCGAGATAGACTTTCCAATGCTGATTTTTTCCAACCGAG
CTGGGTATCGCGAAAGGCGCGGTAACAATGCCATTGTCGCGCGTGCAGGGCGAA
AATGCCGAAATCAAGCGTCAGCAGCTACGGTTTTTCAAACCTTCGCTATGCGCGAAGG
CTGCGCTGCGTATCTTCTGCGGTGAGCTTGGAACTTCGGGATCGGGAGTCATCCACGCCAC
CACGCCGATGCTGATGACGGTCAGAAATGCCGGTCAGCATAAACAGTCCGCGAACGCCGAC
CGCGTCGGCAATCAGGGGGCAACGACGAGGCTGACCGAAACGTCAAACCGATACCTAA
ACCGATCATCGCATTTGCGCGGTACGTACGCGTTCGCGCGTCAAATCCGCGACGCGC
GGTAACCGCGCACTGACCGCCCTGCACCTGTATGGCGGTGCGGCGACCGCATGGG
CAGCGTATCGGCGGCGGCGGCAAGAAAGTGCCTGCCGCAACACGACGATCCCGCATA
AATGGTTTTCTTGGCCCGAACTTGTGGAAGCGATGCCCAAAGGCGATTGCGAGAGAG
CTGTGTGACCGCTTAAAGTGGCCATTGCCAGCCGACCGAGCTTTTGTGCTTCCGCGC
GGGACGCGAGGCGGCATACCGCCAATACGGGCGACGAGGAACATACCGAGCATACG
CAGCGGTACACGCGGAAAGCGTCTGACTGGCGCGCATTCGTGCGGAAACATTTGGAT
GCGGTTGTCTCTGCCATCATATTTTTTCAGACGGCATCAACAGTTGCAATGCCGTCTGA

Appendix A

-337-

ACTTCCAGTGAACAGATTTTCGGATTATACAGGATTGCGCGTATTTTCGGTTGCGGCGCGG
GTTCAAATCAACGCCACTGCCAGCGGTTGCGCCACGCGCCCAAAACGGCGTTTCGGATAT
TTATTGCTGCCAAGCTTCCGTTAAAGCGGGCAAGCGCGCGGACGATGTTGCCTTTTCA
AGATTCCGGTAATGCGCGAGGATGGTACAGCCGTAACGCAGGTTGGTGCAGGATGTCGAAC
AGGTTGTGCGCGGTTTTCGGATGTAGTTTTCCAAACCGCATAACTGCATCAGGCCG
CGCGCGCGACACCGCTGATTGCATACTGGCGGAACGCGCTTTCACCTCAATCAGCCCC
AACACAATCTGCGTATCCAAACCGGCCCGGCTGCTTTCGTAAGGATATTGACAGCAGC
CTGCGCGCTCCTCCTCGGGACGAACCTTGCCAAACGTGCGGACATGGCAGACAAC
CAACGCTGCGCCCTCTTTCGGATTGTCAAACACGAGCCTCGGCGGATTGACGCTGCGGACA
GAACTCCTCATCAGGAAGCCACATCGTCGGCAAGCGTTTCTCACGTTGCGCGCGCGG
TGCGCCAGAGGACTGAGCAACAACGCACCGCGGCGCACACAAGCGCGCGGCGTTGCAGA
TTAACGGGTAGGATATCGGTTCGTTTCTCATAGGGAACGGGGGCGCTCCGGACGTTTC
AGACGGCATTAAATATTCAAACAGACATAATTGCTTTCACGCGAAAAACCGCGCGCAA
ATCCAAGCGCGGATATCGCCCTGCGCTTTCGGGCAAACTCAATTCTACGCGCTCAA
GAACGCTTGTCCAAACAGGCACAGGCAACACCGCGCGGCGATTTCGTTTTCACCGGTTA
TCCGTCGTCGGGATTATGCAGCAGCACCATCAGCGCATCAGCTTTCGGGCGGCGAGCAG
GCGGAAATATAGTAGATTAAATTTAAACAGTACAGCGTTGCTTCGCTTCGCGTACTGA
TTTAAATTTAATCCACTATATCTTGAGGCTTTCGAAAATTCCTTTCCTCCGACAGCC
GAAACCCAAACAGGTTTTCGGCTGTTTTCGCGCCAGATACCTCCTAATTTTACCCAAA
TACCCCTTAACTCCTGCCGCGACCTGATAATCAGGCATCCGGGGCACCTTTTAGGCGG
CAGCGGGCGCACTTAGCTTGTGCGGCTTTCAAAAGGTTCAAACACATCGCCTTCAGAT
GGCTTTCGCGCACTCACTTAAATCAGTCCGAAATAGGCTGCGCGGCGTAGCGGAATTAC
GGTGCAGCGTACCGAAGCTCTGTTGACACATATAGTGGATTACAAAAACAGTACGG
CGTTGCTTCGCTGCTTCAAGAGAACGATTCTCTAAGGTGCTGAAGCACAAGTGAAT
CGGTTCCGTAATTTGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATTAAATTTAAT
CCACTATAACGGGTTTTCGACAATATCGGTTGCGTTTGGTTTGCCTCCGTCAGCGGA
CGGTTGCGGCGAGCTTTCGCGATAATGCGGTTCTGCAACCGATGCTTCTCAGTTTTCG
TAGGTCGGATTCTCGAATCCGACATTACTTCAATCGTATCCAATAGAAAAGTCCGCATTG
CCGCCACCCCAATTATGCGGATAAATACCTGTTTGACATAACGGTGAAACGTAGAAAAC
CCCCAATCGGAATTTGCTACATAGCCATGTTTGACCGGATTGAAATGCAGATAATCA
AAATGCCAGGCAAAATCGGCCTCATCGCGATAGTATATTCCAAAGCGTTTTCGCAA
AGCCTGAGATTGCGCGGATTAAATATTGGCTGTGCGGCTTGATTGCGCGCAGCGTTC
GAATAAGCAGATCATTGTCCGGCAGCGCCATATGGTATGCAGATGGTCCGGCATCAAC
ACCCATGCCAAAATTTCAAACGGATACCGTTTCGCGCACCGCCATTACCGCTGCCGTA
GCCAAACGCACCGCATCATCGGTCAAATCTTCTGCCGTTTATTGGTTACAACCGTAAA
AAGTAAGTGCGCGCATTCGCGGTAACGACGCTATTTCAATAGTATTATGCTCGGAATGA
TTTTGTAGGTCGGATTCTGAATTCGACATTTGGGCATTGCTGCAATGGATTGCAATGA
TGGGAATGTTAAAGGTTTGTTCGGATACAAGTATCCGACCTACGCTTGTGTAACCGTCA
TCCCACGAAAGTGGGAATCTAGAACTCTCGGGTTTCAGTCAATTTCGATAGATTCCCGC
CGGTCAGGGGCTGATTCCCGCTGCGCGGGAATGACGGGTTTCAAGATTGCAGTGT
GTCGGGAATGACGGGTTTCAAGATTGCGGTGTTGTGCGGAATGACGAATCCATCCATAC
GAAACCTGCACACGTCATTCCCAGGAAGTGGGAATCTAGAACTCCCGGGTTTCAGTCA
TTTCGATAGATTCCCGCGCGCTCGGGGCTAGATTCCCGCTGCGCGGGAATGACGGG
TTTCGAGATTGCGGTGTTGTCGGAACGCACTGAACCGTCATTCCCACGACAGTGGGAAT
CTAGAATCTCGGGGTTTCAGTCATTTCGATAGATTCCCGCGCGCTCAGGGGCTAGAT
TCCCGCTGCGCGGGAATGATGGGTTTCAAGATTGCGGTATGTCGGAATGACGAATCC
ATCCATACGGAACCTGCACACGTCATTCCCACGAAAGTGGGAATCTAGAATCCCGGG
TTTCAGTCATTTCGATAGATTCCCGCGCGCTCAGGGAGTCTGATTCCCGCTGCGCGG
GAATGACGAATTTGAGATTGCGGTATTATCGGGAATGACGAATTTGAGATTGCGGTAT
TGTCGGGAATGCGGGTTTCAAGATTACGGTGTGTCGGGAATGACGGTTGCGGTATTTC
CAGCGCCGCCCGCGCTGTAACGCGAGGTGAATCAAAAATGCGCTCTGAAGTTTCA
CGCATCGGTGTCGGGGAATCAGAAGTGGTAGCGCATGCCAATGAGACTTCGTGGGTTT
TGAAGCGGGTGTTCAGAGCTCCCGATTGTGTTAAGCTATCCGGTGTCTAAAGTCA
GCTTGGGTGTGATGTCGAAACGACACCGCGCATGACACCAAGACCTAAGCTGCTGATAC
TGTGCTTTCGTGATAGGCAAGTTTGTGCTCGGACCTGTACGATTTCCTGGCACTG
TAGCGCTTTCGCTGCTGGACTGAAAGTAGTCGTGGTTTCTTTCTCACCGAATGAACCT
GATGTTTAACTGTCCGTAGGCGACGCGCGCACCGATATAGGGTTTGAATTTATCGAAT
TATCGTTGAGTTTGAATCGTAAATGCGGATAAGCCGAGAGAAGAGCGCGTGGAAATG
TACCGTTTTCCTGATTTTCCGCTTCAGTCTTTCGAGATGCCACTGCTATTGTTTTTT
GCAACTCTTTTGTGTTTACGGAATATTTATGTTGTTCCATTTTCTGTAAGTGGCATAAT
CTGCCGTATCTTCAGCGCGGAAATCGTAGCCGACGACACCGGGGTTGGATGGAAT
GCGCACGGATGTTTCTGAAATAATCGCTTACTGTGCTTGTGTTGTTGACCGGTTGCTT
TCGGATAATCGTGGTAAATGCGTTTCGGCGGCATAAGCTAAATCCGCTGCACATAATACG
GGCTGCGGCTGCGCTTCACTTGCCGCTGCGCTGCGGAAGAGAAGAGAAGAGAAGAGA
AGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGGTTTTTGGGGG
TGGATTCAATTTTCGGCTCCGATTTCGGTTTAACTGATTAAAAAGAAAGATTTTCAATGA
TGTTGAGGAGCGGACTATAGGTTTGTGGCGATGTTTCAACACAATATAGCGGATGA
ACAAAAAGAGAAGGATTCTCTAAGGTGCTGAAGCACCAGTGAATCGGTTCCGTACTAT
TTGTACTGTCTGCGGCTTCGTTGCTTGTCTGATTGTTTGTAAATCCGCTATAACAACG
CTTCGTCGAAAAACGATTGAATTTGCGGGCAGAGCTGGACGAAACCGCGACAGCC
TGCCGCAAAAGGCACAGGTTTTCGCTAGGGCTTAGGCGTGTGCGCGAAATCAATGCGG
GCAGGCATCATTTCTCTACGGCGGCATCAGCGCGCGCGGCTGCTATTATGGGATAACA
AAGATTTAGCGAACAGAGCCTGCGCTGCTGTTTCGGCTATAAAAACCGTTTCGGTAACG
GCTCGTTTCGGCATCGTGGCTTGTGTCAGCAAAACCTCTTAGGCGCGAGCGGATCAAT
TCGTGCGCGGCTTCAATGCCGATTTCCTCAACGCTTGAAGCAACGCTGGCGGTTGACAC

Appendix A

-338-

TAAACGCGGGCAATATGTGGAAGCATTATCAGGAAGACCGCACC GCCGCCCGGATACGACA
GCCATATGCCCGTGGCGGGCGCGACGCTGATGTATCCGCGCCGAAAGACTGGCTGCTTT
ACGGCGGTGCGGACTGGTGCACAAACATAACGAAAGAGCGGAACAGGCTTCCATCCGCA
AGGGTTTGGCTGTGCGCGCGGTCAAACCGTTCGACGCGCGCTTGGGTCTGCGGGCAAACC
TGCGCTATACCCGAGGATGTTTGACGCACCCGGGACCATTGTGTACCGCTTCCCGCGCA
AAGACCACGAATATCAGGCAAACTGTGCTTGTGGCATGACAAAATCTCTTGAAGGGCT
TTACGCCGCAACTCAATTTCCGCTATCTGAAAATCGACAGCAATATGAAAAGTTTTTACA
CACGCAAAACATGCAGATTTTCATGAGCGTGGAAAAGGATTTCAAATAAGCGCAAAAAA
TGCCGTGCGGCAACATCCGTGGGCGAATCAAACCCGCGCATCATTTATTGTCAACGCC
TGCGCCGTCAGAGTAACATTGCGTTTTTCCCCACCGGTATCGGCATGACCACCACCCC
CGCAAACGTCCTCGCCTCGCTCGATTTGGGTTCCAAACAGTTTCCGCTCCAGATTTGCGA
AAACAACAACGGAACAATTAAGTCATCGATTCTGTTCAAACAGATGGTGGCTTCCGCCG
CGGACTGGACGAACAGAAAAATCTGAGTGCCGCTTCCCAAGAACAGGCTTTGGACTGTCT
GGCAAAATTTCGGCGAACGCTTCCGCGGCTTCCGCCCTGAACAGGTACGCGCGGTGGCAAC
CAACACATTCCGCGTTGCCAAAAACATCGCAGATTTCTTCCCAAAGCCGAAGCGGCATT
GGGTTTTCCCATCGAAATCATCGCCGGGCGGAAGAGGCGCGGCTGATTTATACCGCGCT
GATCCACACCTTCCCCCGGGCGGCGGCAAAATGCTGGTTATCGACATCGCGCGCGGTTT
GACAGAATTTGTCATCGGCTCGACGCTGAATCCCGACATTACCGAAAGCCTGCCCTTGGG
CTGCGTAACCTACAGCCTTGGCGTTCTTCCAAAACAAAATACCGCCAAAGACTTCCAAATC
TGCCATTTCCGCCGCCGCAACGAAATCCAGCGTATCAGCAAAAATATGAGGCGCGAAGG
TTGGGATTTCCGCGTCCGCGCATCGGGTTCCGGCAAAATCCATCCGCGACGCTGCTTGGCG
CGAAATGCCCAAGAGGCGGACATTACCTACAAAGGCATGCGCGCCTCGCCGAACGCAT
CATCGAAGCCGGTTCCGTCAA AAAAGCCAAATTTGAAAACCTGAAACCGGAACGCATCGA
AGTTTTTGGCGCGGACTTGGCGGTGATGATGGCGCGGTTTGGAGAAATGAAACTCGACAG
GATGACCGTAACCGAAGCCGCCCTGCGCGACGGCGTGTTTTACGATTTGATCGGGCGCGG
TTTAAACGAAGATATGCGCGGACAAACGGTTGCGGAGTTTCAAACACCGCTACCACGTCAG
CCTCAATCAGGCGAAACGCACCGCGAGACCGCGCAAACTTTATGGACAGCCTCTGCCA
CGCTAAAAACGTTACAGTTCAAGAGCTTGCCCTGTGGCAACAGTATCTCGGACGCGCGC
CGCGCTGCACGAATCGGTTTGGACATCGCCACACCGGCTATCACAAGCATTCGCCCTA
CATCCTCGAAAACGCCGATATGCCGGGTTTCTCAGCAAGAACAGACCATACTTGCCCA
ACTGGTTCATCGGTCATCGCGGCGATATGAAAAAATGAGCGGCATCATCGGCACCAACGA
AATGTTGTGGTATGCCGTTTTGTCCCTGCGCCTTGGCGACTGTTCTGCCGTTTCCGCGCA
AGACCTGTCTTTCCGAAAAATATGCAGTTGCGCACGGATACGGAAAGCTGCGGCTTCAT
CTGCGTATTGACAGGAATGGCTGGAACGCCATCCCTGATTGCCGACGATTGGAATA
TGAAAGCGTCCAATGGCAAAAAATCAATATGCCGTTCAAAGTCGAGGCGCTCTGAACCTT
GCGGAACAAATGCCGTCCAAACCTGTCCAGACGGCATTTCGCTGTCCGCAACATCCCGA
TATGCGCGGCACATCTGCTCGGAACGGTCATGCAGGCGTAAAAACAAGGGGCACATAAC
CCAAAAACCGGCTGAAATCTTTCAGGCGGTTTCGTTTGGGTTGCCGCGAGGCGCATCCC
ATCATTTTTGCCAAGGCAACAAATATTTGGCGGCATCTTTCATTTGTCTGCCGCTTCC
TGAGTCGCGTCGCGAGCTTTGTTCAAAGTATCTTTAGCTGCTTCAGTTACAGCTTCTTTG
GCTTCAGTTACAGGATTTCTCGGCACTTGCCCTTTGCATCAGCCGACGATCTTTGACTTGG
TCTTTTCGCTTCTTCGACGGCAGAACGGCGCAGACTCGGCGGCAAGCCGAGTGCTTTTA
ACATCGGACTCAACGGCTTGAACCGCTTCTTAACTCCTGTTTGGCTTCTTGCGAACAA
GCTGCCAAGGACGCGCCATCATTTGCGGCAATCAATAATTTTTTCATGCTTATCCTTCT
TGAGTTTGTGATTAAGGTTTGTCTTAAAAATCGGACCGGTTCATCAATCGGCTGATTT
TGCCCATCGACCGGAGAGAAAACGGTTTCCGCTTAGTTAAACCCATTATATTTAAATA
TAAAGGTTTTTTCTCGAACAAATAGGCGGCATCAATGCCATATTGAAACACGTCGCGAAA
ACTATTTTATGAAAAACAGTTTCGGAATAATTGTAACACATATCCCCCTCCTTTTGAGTTTC
CGACGGTGCGGACTTTTTCTGCGAGGTTTGAAAAACCAATATATTCGGGATGTCCG
AATACCTCAATATGCGCGCGCGGGAATAAAACGCCCCCTCGCTGTCGATTTCCAGCAC
ATAGCGTCCGTTCTGCACGGCGCATAGCCGCTTTGCTGCTGATAGGGTTGACGGG
GGCATGCGAAACTAGGTAATCCGTGAGTTTGCGCGCGCTTTCGGCGATATTGCCACACG
TTTGGCAACAAGGTATGGCACACGCCGTTTCTGCCAACCTGCCGAGCTGCTCTATC
ATCGGTTTCCATACATTGCGCGTGACGGCTTCAAGTCGCCGGGATGCTTGCCGATCAG
TCGGATAACATTTGTTCCGGCAAGCCTTTAATCGGATAACTGATTTGTTTTTTGCCGTC
GTTGGTTTTGCTTCTGCTGCTTTGTCCAAATCCAAACCGCAATCGCCGATTGTGCGAT
ATATTTGACTTTGAAAACCGGTTTTCGGCGCGCTTTGTACCGCGTTTTCGGGCTGTTCCGC
CGTATTTTTCGATTTGCGCGACGGCGCAAGCAGCAGGCGAGCCGCCAATACGGCAAAAGA
TGTTTTTCAGCATTCACACTCCTGATGGTTTTCAAATGCCGCTGAAACCGCGCAGGCGG
AGGTTTCGGACGGCATCGGGTTCAATTCACGGGCGGATGCCGACCGCATCGCGTACTTTG
TCCAATAATTCGCGTCTTCTTTACGCGCTTTCGCCGCGCTGCTGCAAAATCTCTTCG
ATTTGCGAAGGTCGCGCGTCAGCTCGTTGTAGCGTTTCGCGCGGTTTCGGCGAGTTTCGGCG
TTGATTTTCGCCGCCAAAAGTTTTTGGCTTCACCCACGCGCAAGCCGTCGGCAAGCATT
TTCGTAATTTCCACCGTTTCAGACGGCGTGGAAGGCTTTGTAGATTTCAAACAATGGG
CTTTCGTCGGGCTGTTTTCGGCTCGCCCGGCTCTTTTCATATTGGTGATGATTTTGTGACC
GATTTTTTGGGTTTTTTTTGCTGTTTTCCCAAAGCGGAATGGTGTGCCGTAGGATTTGGAC
ATTTTGGCTCCGTCCAAACCGACCAAGAGTTCGACGTTTTTCATCGATTTTCACTTCGGGC
AGGTTGAAGATTTCGCGAAGCGGTGGTTGAAGCGCGCGCATGTGCGCGCCATTTCG
ACGTGTTGGATTGGTTCGCGCCGACGGGCATTCTGTTGGCGTTGAACATCAGAATATCG
GCAGTCATCAGAATCGGATAACTGAACAAACCCATTTCACACCGGAATCAGGGTCTTCC
TGCCCGTTTTCTGCATTTGCTGACGGCGGCTTTGTAGGCATGGGCGCGGTTTCATCAA
CCCTTGGCAGATTTCGCGAGTCAAGATCCAGTTCAATTCATCACTTCGGGAGTGTCGCTT
TGGCGGTAGAAGGTGGTTCGCTCGGGTCGAGTCCGCGAGCAAGCCAGTGGCGGCAACG
GCTTGGGTGGATTGGTGAATCATCTCCGGCTCGTGGCATTGATGATACCGTGGTAATCG
GCGAGGAAGAGGAAGGATTTCGATATCGAGTTTTTGGCGCGCGGACGCGGGGCGGATG

Appendix A

-339-

GCGCCGACGTAGTTGCCAGATGCGGGATGCGGTTGGTGGTTACGCCGGTCAGAACTCGT
TTTTTGTCTATAAAATGTCTTGCGGCATCAATGCCGTCTGAAAGGGAAAAAGATGTGC
CGATTATACCCGATTTGCCACCTACATCCAGCCGACAACAGACTTTTCCATATTAAGAAG
ATATAGTTATACACATTATATACATTTTATATACCTTTAAATTCATGATATATCGAAT
TAAATATAGAAAAACAGAAAAAGAACTTGAGTTATCCACAATTATGCACATATAGGCTT
CGACAGCGGACATTTTGAAAGGAAAAAATGCGATACGACAAATTAACCGCCAAATT
CCAACAAGCCCTTGCAGAAGCTCAGAGTTTGGCGTTGGCTGCGGACGGCAGCTATCTGGA
AGCGGGCTTTGTGTAAAGCCCTGCTTGACGACCAAAACAGCGGAGCCGCGCGCTCTT
GGCTCATGCGGGCGTGAACGTGCCGCGAGGTGAAACAGCGTTTGACGAGCATTTAAACAG
CCTGCCGAAAGTGTCGGTTCAGGGCGGCGATATTCTGCCAGCCGAGAATTGCAGGCGGT
GTTGAACCTGATGGACAAAGCTGCCACCAACGCGAGCATGCTTATATTGCCAGCGAAT
TTTCTGCTTGCCTTGGTACAGCAGAACGATGCGACCGGCAAAATTTTGAAAGAAGCCGG
CGCGACCGAACAACATCAATGCCGCGATTGACGAGTACGAGGAGGACAAAACGTGAA
CGATGCCAATGCCGAAGCTCCCAACGCGATGCTTTGAAAAATATACGCTTGACCTGACCCA
GCGCGCCCGCGACGGCAAACTTGACCCCGTTATCGGTCTGTGACGACGAAATCCGCCGCG
GATTGAGTATTGCAACGCCGTACCAAAACAACCTGTGCTGATTGGTGAGCCGGGTGT
GGGTAACACCGCCATTGTTGAAGCTTGGCGCAACGATATCGTCAACGGCGAAGTACCTGA
ATCCCTGCGTAACAAACGCTTGTGGTTTTGGATTGGCGGCTTTGATTGCCGCGCGGAA
ATACCGCGCGCAATTTGAAGAAGCTTGAAAGGCGTGTGAACGATTGGCGAAAGACGA
CGGCAACACTCTGATTTTCATTGATGAAATCCATACTTTGGTCCGCGCGGCAAAACCGA
CGGCGGATGGACGCGGGCAATATGCTGAAACCGGCTTTGGCACGTGGCGAATTGCACTG
TATCGGCGCGACCACTTTGGACGAATACCGCCAATACATCGAAAAAGATGCGGCACCTGA
ACGCGCGCTTCAAAAAGTATTGGTTGGCGAGCCAGCGTGGAGACACCATCGCTATTTT
GCGCGGTTTACAGGAGCGTTATGAAATCCACCATGGTATCGATATTACCGACCTGTCTAT
CGTTGCCGCGAGCGAGTTGAGCGACCGCTACATTACCGACCGCTTCTGCCGATAAAGC
GATTGATTGATTGACGAAGCCGCGAGCCGTGTCAAGATGGAAAAAGAAACCAAGCCGGA
AGCAATGGACAAAATCGACCGCGCTCTAATTCAGCTTCGGATGGAAAGGCGCACGTTGA
AAAAGAAAAAGACGATGCCACCAAAAAACGTTTGGAACTGATAGACGAGGAAATCAACGG
TCTGCAAAAAGAAATACGCCGATTTAGACGAATCTGGAAGCCGAAAAAGCAATTTGAGA
CGGTGCTGCTAATATTAGAAACAAATGACGAAGTCAAAATTAATTCGAACAGGCAAA
ACGGCAAGGCGATTGCGCACTGGCTTCAAAATTTGATGTATGAAGATTGGAGCATTTGGA
AAAACAGCGTGCAGCCGCGCAACGGCGAGATACGGACAGCACAAAACCGGCAAAACAACT
CTTGCGTAATAATGTGCGCGCAGAGGAAATCGCAGAGGTGGTTTCCCGTATGACCGGCAT
TCCCCTATCCAAATGATGGAAGCGCAACGCGACAACTGCTGAAATGGAAGAAGTATT
GCACCGCGCGTGGTCCGACAGGACGAAGCCGTGCGTGCCGTGTCGACGCTATCCGCCG
CAGCCGTCCGGTCTTGGCGATCCGAACAGCCTTACGGCAGCTTCTGTCTTGGGCCC
GACCGCGGTGGGTAAACCGAGTTGTGTAAAGCCCTGGCAGGCTTTCTGTTGACAGCGA
AGATCATCTGATTGCGCATGCGATATGTCGGAATATATGGAAAAACCGCGTTGCCCGCTT
AATCGGCGCGCTCCGGGCTATGTGCGCTACGAAGAAGGCGGTACCTGACCGAACAAGT
GCGCGCGCAAAACCTACAGCGTGATTCTGCTGGACGAAGTGGAAAAAGCCATCCCGATGT
GTTCAACATCTGCTGCAAGTATTGGATGACGGCGCTTGACCGACGGACAAGTTCGCAC
CGTGGACTTCAAAAATACCGTTATCGTGATGACTTCCAATATTGGTAGCCAAACATATCCA
ACAAATGGGCATTACGAGATTACGAAGCGGTGAAAGAAGTTGTGATGGAGGATGTGAAAGA
ACATTTCCGCCCGGAAATGATCAACCGCATCGACGAAGTGGTCTGTTCACGGACTGGA
TCAGGATAATATCGCAACATTCGGAATAATCCAGCTCAAAGGCTTGGAATAACGTTTGA
AAAACAAAACCTGCGCTGGCTGTTTCCGATGCCGCACTGGACATCATCGCCAAAGCCGG
TTTCGACCCGATTTACGGCGCAGCTCCGCTCAAACGCGCCATCCAGTCGGAATCGAAAA
CCCGCTGGCAAAAAGCCCTGCTTGCCGGAACATATGCGCCGAAAGCGAAATCAGGGTGA
AGCCGACGGCGACAGACTGAAATTTGCCTGATTCTGCTTCTGCTGTTGAAATGCCGCTG
AAACGGGAATCTCCGTTTCAGACGGCATTTTTATCCTCGCGACAAACCGTCCCGCTTA
TTGGCGGTAGGTTTGACGAATCTTGCCAGCCTGCCCATCGCCTCTCAATCTGATGGAC
GTAAGGACGCGTAAACATGCGGAAATGGTCGGGCTTGATCCAATTAACCCCGTTCCCTG
CACCAGCAAGACTTTTTGCGGCACAGCAATCGTAAACGAATTTATGTCATCGCGGAT
ACGGTACATTTCCGTTATCGATTTTGGGAACATATACATCGCGCCCATCGGTTTGACGCA
GGATACGCGCGGAATCTGGTTGACCAAGTTCCACGCGCTGTGCGCTGTTCCAAAAGCCG
TCCGCCGGGCAAAATGAATTCGTTGATGCTCTGATAGCCGCCCAATGCCGCTGAAATCGC
GTGCTGATCGCGGATTTGGCACAGGGCGATAGACGAGAGCATATCCAAACCTCGAT
GTAACCTTTGCTATGATTTCGGCCCGTTGAGCACCATCCAGCCTTGGCGGAATCCGGC
TACACGGTAGGCTTTGGACAAACCGTTGACGTTACCGTCAAAGGTCGGGGGCAAGCGC
GGCGATGTGGTGTGAACCGCGCGCTCATAAAGGATTTTGTGTAATCTCGTCGCGGAA
AATAATCAAACCGTGCTTGCGCGCAGTTTCGGCGATTTCCAACAGGATTTCCCTGCTGTA
CACCGCGCTGTGCGATTTGAGTTTGGGATTGATGACGACGATGGCTTTGGTTTTGGCGGTGAT
TTTGGCTTCCATATCGGCAAGGTTGGGGAACAGCCGTTTTCTTCGTCGCACAGATAATG
GCGTACCGTACCGCCCGCAAGCGTTGCCGCGCGCTCCACAAGGGATAGTCGGGCGCGGG
AATCAGGATTTCTCGCCGCTCGTTGAGCAATGCCTGCATAGACATCGTAATCAGCTCGGA
CACGCGGTTGCCGATATAGACATCATCAACCGTAATATCGCGCAAAACCTTTGGTCTGATA
GTAGTGAACAATGGCTTTGCGGGCGGAATACAGCCCTTTAGAATCGCAATAGCCTTGCGA
AGTCGGCAGGTTGCGGATGACATCGACCAAGATTTATCAGGGGCTTCAAAGCCGAACGG
CGCAGGTTGCGGATTTGAGTTAAGGATTTTATGCCCCTCCTCTCCAACCTGAAGGGC
TTTTTTGTGAACCGGCGCGGTATGTCGTAAACAGAGCTGATCGAGCTTTGCAGACTTGGG
AAATTTATCCATGATGTTTCCGTAAATTTTGGGAATGGGTGGGAATGTACTCTTTTTC
ACGCGGAATTTAAGCATCAAACCGAGATTTTCAGGCTTTTACCTGCCCTTTTGCGCC
GTTGCGTGACGCTTTTGCGCCCTATTTCCCGAGTTATCGGTATCCACTTCGTCAATCACGA
CAACCGTTGTTTCCGGATTTTGGCCAGCAGCGGTGCCAGCAATTCGGTTACGCGCGCGA
TCAGTTCCGCTTTTTCGCCGCGAGTCGGTGCTTCTTGCGCCGGTTACTTTAATATTGA

Appendix A

-340-

CATAAGGCATGATCTTTCTCCGTTTTAAATATTGCTATCTTATCAAAACAAGTTGCCTCC
GCCCCAACGTCCGCTTCATTTTCTGAAAAATTCAAATCGATATAGTGGATTAAACAAAAAT
CAGGACAAGGCGAGCAGGCGGACAGTACAGATAGTACGGAACCGATTCACTTGGTGC
TTCAGCACCTTAGAGAGTTCGTTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTT
TGTTAATCCACTATACAAAAGACAGTTTTTCAGACAGCAATCCGTCTTACACGATACC
TATTTTGTATATAACATAACAAATCTTTAACCCACACGAGACAAAGGCTGCACCATGAAG
AAAACATTGACACTGCTCGCCGTTTCCGCCCTATTGCCACATCCGCCACGCCACCGC
GTCTGGGTGCAAACGCCACACGACGCGCGGAATACCTTAAAGCCGACTTGGGCTAC
GGCGAATTTCCCGAACTCGAACCCATCGCCAAAGACCGCTGCACATCTTACGAAACCG
ATGCAGCTGGTTACCGAAAAAGGCAAGGAAAACATGATTCAACGCGGCACATACAACATAC
CAGTACCGAAGCAACCGTCCCGTTAAGGACGGCAGTTACCTCGTCATCGCCGAATATCAG
CCTACTTTCTGTGCAAAAAACAAAGCAGGCTGGAACAGGCGGGCATCAAAGAAATGCCT
GACGCAAGCTATTGCGAACAAACCGAATGTTTCGGCAAAAAACATCGTCAACGTTCGGACAC
GAAAGCGCGGACACCGCCATCATCAACAAACCGGTCGGACAAAACTTGGAAATCGTCCCG
CTGGACAATCCCGCCAACATTACGTAGGCGAACGCTTCAAAGTCCGCGTTCTGTTCCGT
GGCGAACCGCTGCCAATGCCACCGTTACCGCCACCTTTGACGGCTTCGACACACGCGAC
CGCAGCAAAACGCAAAACCGAAGCAAGCAACAGGCTTTCTCCGACACAGACGACAAAGGC
GAAGTGGACATCATCCCTTTCGGCCAAGGCTTCTGGAAGCCAATGTCGAACACAAAACC
GACTTCCCCGATCAAAGCGTGTGCCAAAAACAGGCGAACTACTCGACTTTAACCTTCCAA
ATCGGTCAATTCGCACCATTAATCCCGCCCGCACAAAAATGCGCTCTGAAGGCTTCAGACG
GCATTTTGTGTTCAAAACATCAATACCAACCGCGCAGTTTTCATCGCTTTTCAACACGGCG
GATACTCATCATGTAAGACGCGGTTTCGCAATCGACATCATACTCTTGCGCCAAGTTCCA
TATATCGCGGAACGCGCGTTCGACGAGCAGCGGTTTCTTCTCTTGAACCTTCGTCAAACCTC
CCAATAATAGCTTGCAGCTTTTTCACCCACTCGAAATAGGAACGACACGCGCGCCGCA
GTTTCGCCAGAATATCAGGCACGACCAATACGCCGTTTTCAGCGCAGGATCACGTTCGGCTTC
GGGCGTAGTCGGGCGCTTCGCGCTTCGACTACGATTTTCGCGCGGACTTTACCGCGCTT
TTCGGAAGTCAGTTGGTTTCTTCAGCGCGCAAGGGCGAGTACGTCCACATCCAAAGCCAA
AAGTTCGGCGTTGGTAATTTCTTTCGCGTAACCGGCTTCGTTGGTGATGAAGCCTTTTTC
TTGGAATCTTTAAACAAAGCTTCCATATCAAACCGTTTTTCGTTGTAATGGCAACGTC
AACAGTAGAAACCGCAACAACTTTTCGCGCCGATGATGCGCGTAATAACCTGTGTGGTA
ACCCACATTACCGAAACCTTGAATGGCGTAAGTGGCACCTTCACGTCTTTCGCCAGTTT
TTCCAAAGCTTGGACGCGCGCGAGGTTACGCCGTAACCGGTAGCTCGGTACGCGCCAA
AGAGCCGCCGAACCTCAACCGGTTTTTCGGTAAATACGCCCGGCGCGGAATGTTTACCAC
GTTTTCTAAGCCTTCACCATCCACGACATAATTTGCGGTTGGTATTCACATCGGGGGC
GGGAATATCGATTTTCTCGCCAATCAGCGGGGCAATCGCTTCAGCATAAGCGCGGGCGAT
GCGTTCCAGTTCCGCTTCGAATAATCGCGCGGATCCAAGTAATGCCGCTTTCGCCGCC
GCCGTAAGGAATACCGCAACGACGATTTGATGGTCATCCAAATTGACAGGGCTTTGAC
TTCGTCCAAATTACACTGGGATGGAAGCGCACGCGGCTTTATAGGGGCGGACGCGGTT
GTTGTGTGCGAACGGTAGCCCGTGAAGGTTTTGACCGTGTGTCGTCGAGTTTGACGGG
AAAATTGACTTCCAACACGCGGGTTCGGACTCTTCAGGATTTCAATAACGCGCGGATCGGT
TTTCAGCGGTTTCACGCGGTTTTTTCACCTGTTTCGCGCGGATTTCAACCGGATTGAGGGT
TTCTTTTGAAGGGCTTCAGACATTTTTCCTTCTTTCACAAAGAGAGGTTTCGGAATGGA
ACAAGCCATCAGGTTTCGCAACTATAACCAATTTTCAAGCAAAATGTAATAGCGTGTAGTT
GGAATCGGCCGATTTGATTAATCTATATATGATTTTATTTCCAAAGCCGACGGAATCC
GTCTGAAAAAAGCGGAACATATCCAAAAAGCAAAATGTCCAATTAATAAAGATATAAG
AATCCTTTTATTTTAAATAATTAATTGAACGCGCGCGGATTTGCACACCTTCCCG
ACTCCGTTCCGAAATCCGGAACACCGCGCGGCAAAACCTGTTTCGATTGTTAAACATCCA
TACATTAGAAGCCCTGTGCAAAACGATGTTAAATAAACCTTTTCAACCCGACAGAAAC
GGATTATGAATGCAGCCATCGAACACGTCCAAGCCGTTCGCTTCGATTGACGCGCACAC
TGTGCGATTCCGTCGCCGACCTTCGCCGCCGCGCAGAAGCGATGTTGGAACAACTCGGTA
TGAACCGCTGCTCGCAAGTGGTTCGAAAGCTATGTGGGCGACGGCATCGGCAAACTGG
TTCACCGGCTCCTCACCAACGACCGCGACCGCGAAGCCGATTCCGAACGTGTGGGAAAAAG
GTTTCGTATCTATATGAATACTACCGCGACCATTTGAGCGTCTTTCACCGCGCCCTATCC
CGAAACCGAAGCCGGCTGGCATTGCTTAAATCTTTGGGCTATCCGCTCGCGCTCGTTAC
CAACAAAAACGAAATCCTTCGCTCGGAGCTTCAAAACAACTGGGACTCGCCGACTATT
TAGCCTGATACTCGGCGGCGACAGCTGCCCCGAGAAAAACCCAGCCCCCTGCCGCTGCG
GCACGCCGCGGAAGTTTTGGGTATCGATGTTGCAAAACATGGTTATGGTTCGGCGACTCGCG
CAACGACATCATCGCGCCCAAGCCGCGCGGCTGCTGAGCGTCGCGGTTACCTTCGGTTA
CGGCGATATGACGCTGCTCTCGCAAGACGATGCGACCCGCCCGGACTGGATTATCGGCTC
GCTGCCCCGAAATTTACGAAACCTGCAACCTCAGAAAAACAAAGAGAGTAGGCATTTCGG
ACGGCTCCGTTTTGCGCGCTATGCGGCTGAAACCTGCCCCACGCGGAAACCGCGCCA
TGAAACCGCAAAATCCTTCGCGCCGCGGATGGACATCCTCTCGCGCCAAAGAACTCA
GCCGATCGGTCTGAAACGCAAACTTGACCGCACGCCGAAAGCGAAGAGGAGTTGGAAA
ACGTGTTAAACGAATTTGCCGAACGCAACTGGCAGTCGGATTTGCGCTATGCCGAAGCCT
ATATCCGCGCAAAAGCCGCAAAACACGCTTTCATTGAGGCTGAAACAGGCTTTGGCGCAAC
AGGGCATAGATGAAGAAACGACCGCAACCTGCTTCCCGACCGCTCAAGCGAAAACTGG
CCGCGATAGCCGTTGCTGTAATAAATTCAAACATCCGCGCGCGGACTTAAAGAAAAAC
AAAAACAGGCGCTTCTCGCCTATCGCGGTTTTGATGCGGATACCGTTTCAGACGGCAT
TGAAACATGCTGGGATGACGGCTGGGAGGAAGACTGCTGAACGTAATCCTTGAATCTTT
TTGCATGACGGCTTAACCTTACCTCCATTTCCAACCTTTTCGATTGAGAATAAAATGTCC
GAACATCCGAGAAAAATCACAACCCACTTCTTGAAGATGAACGCAAAACCCGGTTTAC
CTATGGGTGACGCGGATTCATGCTCGTCTTTGGGCGAGCGTATGGCACTC
GTGTTTTTCTAGTCTTCCGTTTTTGGCTTTCCTAAACAAATGCCGCTGAAACCTTCA
GACGGCATCGCGAGCCATTTTCGGCAGGCTATCCCATCATAGCTTTTTTTAGCTTGAATT
CCACTTTCCCATTCCTAAATTTTCCACACCCATTTCAAATACCCCTTTCTTAAACA

Appendix A

-341-

GGTACACTATGACACAACAACGCCAACTGCCTTCGCACGAACTCATTATGTCCGAACTGA
TGATGCCGGGACACGCCAATTTACAGCGGCAACGTACACGGCGGCGAACTCCTGCTCCTGC
TCGACCAAGTCGCTATTCTGCGCCAGCCGTTACAGCGGCAATTATGCGTTACCCGTGT
CGGTTGACAAAGTCTGTTTAAAGAACCCTCCATGTGCGGCGACCTGGTTACTTTCTACG
CCAGCGTAAACTACACGGGGCGTACCTCTATGGAATCGGCATCCGTGTGGAAGCACA
ACATCCGTACGGGAGAAATCCGCCATACCAACAGCTGCTACTTCACCATGGTTGCAGTCA
AAGACGGCAAAACCCGTCCCTGTCCTCCGCTGGAATCCTGACCGACGCCAACGCTGCC
GCTACGAAAAAGCCAAAAACGCAGAGACATCAGCTGCAAGCCTCCGGAGACGTGTCTT
GCGGCTGCTGACGGCGGACTATGCCGTCTGAAAGACAGGCACATCGCGCATCCGTTTCC
ATTGCAACCGGATGAAATCAAGCAAATATAGTGGATTAATTCAAACCAAGTACGGCGTTG
CCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGACCAAGTGAATCGGTT
CCGTACTATCTGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATTTTGTTAATCCACTA
TACCAAACACAGTCAAACAAATTTATATGCCCATCCCTTCCGAATAATTTGAAAACAC
AGCCGCCAAAAACAAAAATCCCGTCTGAAAACCTTTCAGACGGCATTTCCAACTTGATTT
CAGGCAGAAAGTCAGAACGCGATATAGCTGTCGGGTTAACCGGTTTGCCGTTTGTACGC
ACCTCGAAATGAAGCTGCGTCTGGAAGCATCGGTATTGCCCATCAAAGCAACCTGCTGA
CCGCGTTTGACCTGCTGCCCTCGCCGACCAAGTATTTTGGTTGTGCCCGTATGCGGTC
AGGAAAGAAGAATTATGCTGGATGATGACCAAGTTTCCGTATCCCTCAAACCTGAACCG
GCATAAACCACTTTGCGGTCAGCCGCGCCGCAAAACGGGCTGTCCCGCATTACCGGCAATA
TCGACACCTTTGTTGTGCGCGGAAATCGGCAACCACTTTACCTTGCGTCGGACGCTGC
CAAACAATGCCGCGGACCGAACGCGTGCCGGAAGCGGAAGCGGCGAGGATTGCCGGGCG
GGCGCGGGAACCGCTTTATTTTCCGCGAGCGGCGCGGCGAGTTGCCGCGCGGACTGCACA
GGCGGTTGCCGCGGGGTTTACAGGGGTTTGCACGGCAGCCGTTACGGCGGGCTGCTT
TCTACGGCTGCGGTTTTCGCTGCGGCATATCCTGCGGTTTGACTTAAACAATCTGACCG
ATGCTCAACATATTGTGCGTCTGCGGTTCCACGCGGAAATCGTCTTGAGAGATATGG
TAGCGTTTGAAATGTTGTACACCGTGTGCGCGGCGACAATAGTATGCGTGCAGCGGTTA
ATGTCGACGGGTGCGGACTGTACGGCGGTTGCGCGGCGAGCCGTTACGGCGGGCTGCTT
TTTACGGCTGCGGCTTTCGCTGCGGCATATCCTGCGGTTTGACTTAAACAATCTGACCG
ATGCTCAACGATATTGTGCGTCTGCGGTTCCACGCGGAAATCGTCTTGAGAGATATGG
TAGCGTTTGAAATGTTGTACACCGTGTGCGCGGCGACAATAGTATGCGTGCAGCGGTTG
ATGTCGACGGGTGCGTAAGAAGGAACGATGTACCCGAAACGGCAGGTGCAGACGGCGGA
ACATAAGCAGGAGGCGTATAAACCGGCGCGCTTTGCACCGGCGGCACATAAGGCGCATCG
CCGGCAGGAGCCGGGCTGTACGGCGTGTCTCCATAGGGGTTGTTGTAAACTGCCGAAGAC
GGCGCGTCTGCTGATTTGCACTGCAATTCCTGCAATGACAGGAGCAGGCTGTTGGGTGGCGCA
CCGCCAACAGAGCGGCAACGGCGGTACAAGCTGCCAAAGTGTCTGTTGTTTCAACATA
AGATAACCTTCACTGTTCCGATATATAGCTGAATGCGGTATATCATATAAATAATGCGCG
TCTTCTCAAGCGCAAAGCCGACGGTATAGTGGATTAACAAAAATCAGGACAAGGCGAC
GAAGCGCAGACAGTACAATAAGTACGGAACCGATTCACTTGGTGTCTCAGCACCTTAGA
GAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCGTACTGTTTTGTTAATCCACTAT
ATTTGATGAAACGGTCAGTCCGCATGCCAGAACGCGCTGTTTCCGCCATGTCCGGATAG
CGGCTCAGGTGCTGATTTGACGCGCGGTTACGGTAATGAAACCTGCGCGCATTCACCGAAA
TCCGTTCCCTCTTCCCGATCGGAACTTCGCGGACCGGTCCTATCCAATAAATCTGTTCG
CCGCGCGGATGTGCGCGCGGGAATGACGTTCTGACCGTGATGCTCTTCCGCAACGGGCG
ATTTTAAATGCCCCGACACTCTTCGCGCGCAACGGCGGGGATATTGATGTTCCACAAAATA
GGGGACTGCCGGGGGTTTTTGAATAAATGCGCAACAATGTCCACAGTGCCTGTTCTGCG
GTCGCCCCAATAGCGTCCGGAAGCGTCGTTAAGGAAAACGCCACGGCGGGTATGCCCATA
AGGTAGGCTTCGGTTGCCGCGGCAACCGTCCCGGAATAAAGCGTGTGTCGCCCCATATTC
GCGCCCCGTTGATGCCCCGAAAGACAAAATCGGCTGAAAATCCGAAAATACAGACTGC
CCGATGTGGATGCAGTCCGTGCGCGTGCGGTTGACATAGTAGAACCCGTTTTGCGCCTGT
TTCAACTGCAAAAGGCGTTCAGCGTCAGCGAATGCTGACCCCGCTCCTGTGCGGTTTCG
GGCGCGACCACTTCGCGTTGCGCAAAATTCGCGCGTAACGCGCGCAAAACGGCAATGCTT
TCGGAGAGGTAGCGTGTGCTGTTGAAATCAAACGTTTCTATCTGATGCTTA
TTCTTCGGGCAATTTGGTGATTTTGACCCGCTCGATGCGCTGCGCTTCTTTTCGACCCAC
TTCAAACCGCGACCGTGGAATCGGCAAAATCGCGGACATCGGGGATGGTTTGCAATTC
TTCCATAATGACCCCGGCAACCGTATGGAATCGGCATCTTCTCTGCTGCGGCGAGTT
GAGTTGCGGTGCGAGTTCCACATATTCACGCGCTTCCACCGTCAAGCTTTCATCGGG
ATTCCCTGAAACGGCTGTTTCTTCTGCGCTCAAATTCCTCGGGGAACGCGCTGCGAT
GGTTTCGAGCAGGTCTTTTCATGGTTACCATGCCCAATACCGCGCGGAACGCTCCACCAC
CAAAGCATAATCCGCGTGTCTTTGGCGGAAGAGTTCGATTGCGCCAGCGCGGTGGTGT
GTCGGGCGAGGACGAGCGGTGGCGCAATGCCGTCTGAATGTCGAGACCGCTGTTTCAG
CAGTTGGGACAGCAGGTCTTTTTGTTGATGTAGCCAAAGGTTGCTCCACGCCCGCTT
ACCGACAACGAGCAGGCGGCTGTAAGGCGTGTGTTGCAAGTTGGGCACACTGTTCTTCGCG
GCTTTGGGAAATGTCCAGCGGTTTCGATGTGCGCGGCTGGGATCATACCCCATATAATCGG
GCGTTCCGGCAAGCGTCAGCAGCTGCGTATCATCGATTTTTCGTTTTCTTCAAATGCGC
GTCGTCGCCGATTGCGCGCGCGCTGCGCAAGCAGCGTTTCGCGGTATACCATCATACC
CAAGACGTTTTTCGCGGCTGCGCTTTCGCGCACGAGCTGCCGATGTAGTCGTTTTTTCGCGCT
GTTGCGCTGCGAAATCTGTTTAAACAATTCGATTAATAATCAGAAAGCGGATGGCGGCGTA
GAGGTAGCTTTTGGGAATTTGGAATGGAAGGCTTCGGCAATCAGGCTGAAACCGATCAT
CAACAAAAAACCAAGGCAGAGCATCACGACGGTAGGGTGTCTGTCGACAAATTCGGTCAA
GAGTTTGTCTGGCAGAAATCATTACAGCCATCGCGACGACGACCGCACCCATCGCCACGAC
GATATGATCGACCATGCCACCGCAGTAATGACCGAATCGATGGAACACGGCATCCAG
TATCAGGATTTGCGCGACCGCCCAACCGCGCGTGTTTTTTTGGCTGTGCGCAAC
GGTAAACCGGTTGCGCTTCGAGGCGTTCATGCAAGTTCGGTGGTGGCTTTGTAAAGCAG
GAAAATACCGCCCGCGAGCATAATCATGTCTTGCAGGAAACGGCGAGGCGCGGATTTG
GAACAGCGGCTCGTCAAGCTGATGATGTGCGCATAAAGCAAGCATAATGATGCGGAT

Appendix A

-342-

GACGACTGCCAGCCCCAGCCCGATAATCCGTGCGCGGTGCGGCCGTGCGGGCTGGACCTT
GTTTGCCAAAATCGCCACAAAGACAAGATTGTCTATCCCCAATACGACTTCCAACACCAA
AAGCGTGGCAAAACCTATCCAGGTATGCGGTTCTGCCAACCAACTGAAATCCATGATTTT
CGTATTCTCAAGTTCAAACGCGAAAAGGCAGCCTGAAGCGCTCAAGCTGCCTGAACAGA
CGGTACGCACAAAAACGCGCGGCGGGCTTGCTGCTCTGCTCGGGGTCTTGATGTGCGT
GTACCTTCGGTCGAAATAATTTAAATAGTTTAAACAGCTTATCGGGGCAATGGCAAAACGC
CATACCGTCTGAAAGGATGTTTCGGACGGCATGAGCTTATTTTGAATGTTTCAACACACG
GACGGCACATAAAGCCTTCCCCTATGTGTGCCCTGATTGAGGGGTGCGCCCCCTCTCAA
ATACAGTCTGATTCTACCGCCGCGAAGAACGGATGTTGAGTGCAGGACGGAGTCCCAACG
CTTAAGGGGTGATGATGAAGCCGTCTATCGCGCGGTAGCCTTTGGTGTGCCCTCTTTAT
CGGTAATGACTATCCACTCTTTCTGCCTGCTGCTGGTAAACGGCAGGTAATACAGCTCCT
CCCCCTCGGCGAGACCTGCCTGTTTCAAGATGTCCGCAACCGTCGTTTTCTCGCATCCG
CCAAGACTTTCAGCGGTTTCAGATGTTTGCAGATTCTTCTGCTTCCTTGTGGAATACG
GCAGCCACTGGTCGGGACGCATACCTCGGCTCGATACCTTTTCAGGACAAATCCAGCGTCT
TGTTCTTCTCATCGCATCCTCAGGTTCTTCAATGCAATGCGGCGGATGCCGAACACG
ACAGGCTTTGACGCCCTTCGGGGGCTTTGTGCAATCTTCGACCACGACTTCCGCCGCCG
TAACAATGGTCAATACGATCCTGTTCAAACGCTTCCACCACAGGACGCGCCAGCGAAACG
TGTGCAGACCGTACACCAAGCCGCCAGCTGGATGATGCCGACCATGGAATAATCGACCA
TGCGTGCTTTTGTCTTTTCTTCGGGCTTGCCAAAATTAAGTCAGCAGCGGACACATA
CAATATCGACAGCCACCGCTGATAAAGCGACAGCCCTCCCGTCAGCTCGGCATAAG
GATAAGGATACCAAACTTAAAAACAGCAATGCCGCCAGCCCTGCAACCGACAGGCTGA
TTAAGAGGTGCCAGCCCGCACTTTTCAAGGCAAAACGCCATCTCGGGAAGTTTTTTCCGT
TTTCCATCATATCTTGTCAAATCAAAAATAACCGTAAAAACAGGGCGCATTTGTACAACA
GATAGAGACTGCTTAAATGCGCGCGCTGTAATCCTGCGCTTCAGACGGCATCCGTC
ACCCGACATCCATACAGATATTTCAATCTAGATATTCGTCCGACCGTATTTGTGTG
CTTCACGTCCCAACCGGTACGTTTACGCCCGCGGAACGGTGCCGCTTCATTGCTGATTA
AGCCCGTATTGATGCCGACCATACCGTATTTCAAGGCTTCGCCGACGCGCATTTGCGGG
CGGTGTGCGCGGTGAAAAGGTAAGCTGCCAAACCGTATTCGATTTGTTGCGACGCTCGA
TGACCTCGGCTTCGGTTCAAACCGGAATACCGGACACAACGCGCCGAAGGTTTCTTCGC
GTGCCACCGCCATTTGCGCGCTTACGCCGCTTAAACAGTCGGTTGAAAAACGTTCCGC
CCAACGCGCTGCGTTTTCGCCCGGTTCAGGACGCTTGACCTTTAGCAAGCGCGTCGCGCA
TGTGCTGCTCGACTTTCTCCACCGCTTTTCTCCTCAATCAGCGGCCCTTGGTTCACACCAT
CCTCAAAGCCGTTGCCCAATTTGAGCGCGCTGCTTTTTCTCAATTTGCGGCAAAAT
CGTCGTAATGGCGGATTCAGCGTAAACGCGGTTGGTGCAGACGAGGCTGACCGCTGT
TACGGAAGTGTGCGGAGCGCGCTTCGACGGCTTTGTCAAATCGGCATCGTCAAACA
CGATAAACGCGCGGTTGCGGCCAGCTCCAAACTGAGTTTTTAATGTCCGCCGCGCTGT
CGGCAAAATTTTTGCGCGGCTTCGGTCGAGCGGCTGAAGCTGATTTTTCGGGATAATCG
GGTTTCGTAGCAATTCATGGCCGATTTCCGAAGCACTGCCGCTGACAACAGGCAACAAAT
CCTGCGGTATGCCGCTTCGTAAAGCAACGAAGCAAGGCATACGCACTCAAAGGCGTGA
GCGATGCGGGTTTACGATCATCGCGCAACCCACCGCAAGCAGGCGCGGCTTGCGCG
CAATCATCGCGGAGGAAATTCGGGATGCTTCCAGCGGTAATCGCAGCGGTAACGCCGACGGCTGT
TCAACACGACAGTTTTTTCGACGCTTTTCACTCGTCAGCACATCGCCGTCAATCCGCC
GCGCCTCTTCGGCAACACAGCGCAACGAAGCCGCATATCGATTTTCGCCACGCGCCT
CGGTACGGCTTTTGCCTGCTCCATCGTCATCAGGCGCGCTAATGCTTCTTGTGTTTCTT
TAATCTGAAAAATACCAACGCCACAAACATCGCGCGCTTCAACGCGATTTTTGCGGCC
ATAATTTTTGTGCTGACGTGCTTTTTGAATCAGTTTTTTCAGCTTGTCGGAATCCGCTCT
TGCGGACAAACGCCAAAGTCTCGCCCGTTGCCGATTCGACTTTGATGCGCTGTA
CCGGGGGAAGGAAATATCGGGATGCTTGATTAATTGGGAATATTCGTTCAATTCGTATC
CTCCGGTATCGGAATAACCGCTTTCAAATGCCGTCAATCTCGCGGACATTATCATCTC
ATATTCCAAACCTGCAACCCCTTCGATGCCGTGTAAGCATCCGATCGGCGAGCGCAAC
ATCCGGCGGTGTCTGAATATGCGCGGGCGCAATCCCTGTCGTTAAGAAAAATATTT
TTATACGATAGTAATCTTTAGAAAGAAAAGTAATGCAGCCCTTTGATGGGGTGCAATATA
TAAGGAGCAAAAGATTGCAAGTTCACGCTGTGGTAGAGTATGGCAAAATCCGAACATTAT
AGTGGATTAAACAAAACAGTACAGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATTCTC
TAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATTGTACTGTCTGCGGCTCGT
CGCCTTGTCTGATTTTTGTTAAATCCATATACAGTCAAATACGGAGATCAAATAAT
GATTTTTAAACAGAATCAAATTTATGGGCGATTTTTGATGCTAATAAAGAACTCTGAT
TGTTCAAACATGTTACGTTTGGGTTAACGGCAATAGACCACCTATATCCCCCATAT
CCTGCCATTGGATACCGACAATGAACTTTAGGCACGACAGTCTTGCAAGCGTTGGCAAA
CAGCAGGACTTTCTGTTTATGACAGTCCAGAAGACCAAGATTTTTTGATACCGAAAAAT
TCGGCAACGCTATGAGGATTGGGTTGCCAAGCTATGCGGGAAGTTGGCTATAAAACGAG
ACGCGCCCTATTTAAAAACATGATGAGCGTGATATTTGGCTGCACAACGGCTGCCTGAA
AATCAGCCCGAGCGCCATGTCAAGCTGGAAGCGTGGAATGCCATTGATGCAGACGATGT
CATTTTATCATTTGGATAACAGCCCTGAAGAAATCGGAGCAGGTTTAAAGTTGGCATTGAG
CCACTGCGGATAATATTTGACAAAAGGCCGCTGAAAAACAGCTTTGACAAAGACCGGT
TGCCAAAGAGATCGACCTACAAAGGGAAGTAACGCAGGCGTTTCGGCAAAACGCGCCCAA
GCCGACGCGGCTTGCCGACGAACTCGGCAATACCCGAAGTTACGGACGCTATCAGGCA
GCCGAAACCTTGCCGAGGCGCAACTGCAAAACAATCCGACACAAAAAACCGTCCGTCC
GACACAAAAAACCGCCGAAAAATCTGGACGGCGGTTCAAACAGGCTGCCCGTTTTAACG
GGCGCGGAGGAAGTTTCGACCGAATTCGCGTAGGCATCGGTAAAGCCGAAAAAGGCTTC
GCCGCTTTCTGGTGCCACTCGGTTGCGTTTCCGAACAAACCGTGTTCGGCGGTATAGCG
TTCGCGGATGCGGACGCTCGGAAGAGAGGACGCGACGCGCTGCCGTCCAGCCGCAACG
GACTTTGCGGCTGTCAAATGGCGGACGCGCACAGACAAACCGTTCTCGCAGGAAAAACG
CCGAAATCGTCCGTGCCGGCTTGGTTTTGAACGGGCGGCATATGCCCGCTCCGCGCTC
ATCATACGCTCCGGCACGGCACAGGCCGCCAAAGACAAAACCGGTACGGTCAGCGCGAA

Appendix A

-343-

AAACCTGATATTTCATAAAAGCTCCCCAATAAAAATAAGATATGAAACAACCGCCCTGATT
CCAAGCTGCGGGAACGCCATACTATAAACGGACGCGCAAAACACACAAGCCCGATAACCGG
AATTTACCTGCGATGAATCAATAATCCGATTGCGCGCCCTTCTTTACCCCTCTTCCGA
TGCCGCCCTTTTGCTGACGATGCCGTCTGAACCTGCCGTGCCCGCCGAGGAATGTAAT
TTTTTCCAAATTCGAAGTAAAAACCGCTATCGGTGTGCTAATTTGCGTTAAATCCTATT
CGGCGTTAACGTTTTGTGCGCCCGCATCCCTGCACTGTTTGATGCGGGCATAAGGCACA
AATCCCGACAAGCGCACTGTTTCATACTTCGTCAATCATTAGACTCCGGTTTGTGCCCG
TGCCGGCAGATGGTTCCGCCGTTTCCCGCGTTCCAGGCATATCCGACAGTGTGAGATAA
GGATTTATTTCATGAAATCACTCAAAACCTTCTCATTTGGGGCATAGTGGTACTGGTCG
GCTTAGCATCCTTTACCACCTCTGGCCCTCAGCCGAGGCGAACAGGTCAGCGCGGTATGGA
TGGTCACCGCCGCATATCCGTTTACTGCATCGCCTACCGTTTTTACAGCCTCTACATCG
CCAACCGCGTAATGCGGCTCGATCCTGACCGCTGACTCCGGCAGAACGCCACAACGACG
GCTTGGACTACGTTCCGACGCACAAAGCGTATTGTTCCGACACCACTTTGCCGCAATTG
CCGGCCGCGGCCCTTTGCTTGGTTCGGTTTGGCGGCGCAATGGGTATCTGCCCGGTA
CTTTGTGGATTATCTTCGGCGTGTATTTGCCGGCGCGTACAGGATATGATGGTCTTGT
TCGTCTCTATGCGCCGCGACGGTAAGTCTTTGGCGGATATTTGTGAAACAGGAACTCGGCA
CTGTCCCGCGCGTGATTGCGCTCCATCGGTATTTTGATGATTATGGTCATCATTATGGCGG
TGTTGGCGTTGATTGTCTGTAAGCATTTGGTTCACAGCCCTTGGGGTACGTTTACCATTG
CAGCAACTATGCCGATTGCGCTGTTTATGGGTATTTACACCGCTTATATCCGTCCGGGCA
AAATCGGCGAGATTTCCATCGTCGGCTTTATTTTGTGATGCTGGCGGTAATTTACGGCG
AAGATGTGGCTAAAAGTTTCCATCGGGCATTGGTTCGACCTTGACGGCATCCAGCTCACTT
GGGCGATTATGATTTACGGCTTTGTGCGCTCCGTATTGCCCGTATGGTTGCTGCTCACTC
CGCGGCACTATCTCTCCACCTTCTGAAATCGGTACGATTGCGGCCCTGGCTTTGGGTA
TCGTCACTCGTCAATCCGCTTTTGCAAAATGCCGTGCCGTAACCCACTTATCGACGGTTCCG
GTCCGGTATTCTCAGGCGCATTGTTCCCATCTTGTTCATTACCATCGCCTGCGGTGCGG
TTTCCGGCTTCCACGCGCTGATTTCTTCCGGCACTACGCCGAAATGCTGGAAACGAAA
CCCACGTCCGCATGATCGGTTACGGCGGTATGTTGATGGAAGTTTCGTAGCCATTATGG
CACTTGGCGCTGCCGCATCGCTTGTATCCCGCGTACTTCCGCATGAACAGCCAGCCG
CCCTGATCGGTACGGATGCCAATACCGCCGCCGAAGTATTACCACCAAGCTGCAATTCC
CTGTGATGCCGCAACCCGTGTGCACACTGCTAAGAAGTCGGCGAAAACACCATCCTTT
CCCGTCCCGCGCGGTGCGCCACCCCTCGCAGTCGGTATGGCGCACATTATGAGCCGCTGA
TTCCGGGCGAGGCGATGATGGCGTCTGTTATCACTTCGCCCTGTTGTTTGAAGCCTTGT
TCATCTGACCGCCGTCGATGCCGCTACGCGCTGCGACGTTTTATGATTCAAGACTTGG
GCAGCATCTTCTACAAACCTTTTCGGCAACACCGACTCCATCCCGCCCAACCTGATTGCGA
CCTTCTTCGCCGTGGCATTGTGGGGCTACTTCTCTACACGGGCGTGACCGACCCGTTGG
GCGGCATCAACTCGCTCTGGCCCTTGTTCGGCATCGCCAAACCAATGCTGGCAGGCGTAG
CCTTGATTATGTGCGCCGTGGTGTGATTAAGATGAAACGCGACCGTTATGCTGGGTGG
TACTCGTTCCCGCGCTCGCGCTACTGTTTCGTAACCTGCTACGCGCGCTGCAAAAACCTGT
TCCACAGCGACCCGCGCATCAGCTTCCTTGCCACGCGCGCAAAATACAGCGACGCATTGG
CTAAAACGAAATCCTTGCGCCTGCCAAAGACATCGGCGAAATGGCGCAAAATCATCTTCA
ACGACAAGATTATGACCAACCTTTGACCATCCTCTTCTTGTGCGTTGTCGTGATTGTCGCC
CGTACGGTTTGGCTACCGCCCTCAAAGCACGCAAGTCGGCTGGCCGACCGCCAAAGAAA
TCCCGCGCGGTGATCCGCGACGGCAAAACAGCCGAGGCGACAAAGTGAAGCATTAAGCTCGCG
TCTTGGTGGAAACCATCAAGCTGACGGCAAACTTGATGGCAGGCGTGCCCGATTATGAA
AACTACGTTGACAGCAGCGCAAAACATAATCCCAACGCCCGGTGATGACCAAGCTCGAG
TTTCAAGACTATTGCGCGAAACGCGCTGCGGCGCAACGCGGACGCTGCTGTTAAGCC
TGCTTGAAACAAATCCGCTCTGAACGCCGCTTCAGACGGAATTTTATAATATAGTGGAT
TAACAAAAATCAGGACAAGGCGACGAAGCCGACAGACAGTACAAATAGTACGAAACCGACT
CACTTGGTGTCTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGACAACGCGG
TACTGTTTTTTGTTAATCCGCTATACCACGATGAATCCTTCGCAATATCTGTTTATCGAC
CTCAATTTTGACAAAATACCGGATACGCGCCTTTGTTGCTTTTCCATCTTCCAACCACT
GTAAATCTCAACAGCGCGTACACGCGATGCTTCAGTTTCTTTTCTGTCGCGGATTGT
TTCGACAAAGAATTGAAATCCATTTTCATGCACCTTAAATTTAATCTGCATTCAAACCT
TTTCACTTTGGAAGCACCATTTATCGGATGTCCCTTCGCAATAAACAAATTTTCCCGATA
CCGCGGCCCATTTTCAACCCAAACCCAAAGCTATGAAAAACCTCATCGCCTTCAACAAAC
CCTATGGCGTTATCTGCCAATTTTCAACGACGAAAAACACAAAGCCTCAAAGACTTTA
TCAATCTTCCCGCTTCTACCCGCGCGGACGGCTCGACACCGACAGCGAGGGGCTGCTGC
TGCTGACCGACGACGCGAGGCTTACGGCACAATTAACGACCCCAATTTCAAACACCCTA
AAACCTACTGGGCGCAACTGGAGGGCGTACCCGACGAAAGCCGATTGGAAGCCTAAGAA
AAGGGATAGACTTAGGCGGTTTCGTTACCGCTCCGGCAAGCATCCGCATCTTGAAACACG
GAGAAGCAGATTCGTTATGGGAGCGCATCCCGCGATACGCGTCCGCAAAACCGTTCCCG
ATTTTTGGATTGAAATACCATTTCTGAGGGCAAAACCCGCAAGTCAGGCGAATGACCG
CCAAGGCGGGCTATCCCTGCCTGCGTCTGATCAGAGTGGCAAGCGCGAGGCTGAAACTGT
TTGATTTGGATTAAAACCCGGGGAATGGGCATACGCCCCGTTTAAACCATATACCGTT
TATCTCATCATTTCCACAAAGTGGGAATCCGGAATTTTATAGTGGATTAAACAAAAATCA
GGACAAGGCGACGAAGCCGACAGTACAGATAGTACGGAACCGATTCACTTGGTGTCTT
CAGCACCTTAGAGAATCGTTCTTTCGCTAAGGCGAGGCAACGCGTACTGGTTTTTG
TTAATCCGCTATATTCGCCATCTCTAAGATTACAGCGATACACGGGTGATTTAAGGAA
TGCCCGAACCGCTATCCCGCCACTTTTTCGTATTCCCGCGCAGCGGGAATCTAGAATC
TCGGACTTTTCAGATAATCTTTGAATATTGCTGTTGTTCTAAGGTCTAGATTCCCGCCTGC
GCGGGAATGACGAATCCATCCGACGGAACCTGCACCACGTCATTCTACGAACCTACA
TCCCGTCATTTCACGAAGTGGGAATCCAGAACGTAAAAATCTGAAGAAACCGTTTTATC
CGATAAGTTTCCGTACCGAACAGACTAGATTCCCGCCTGCGCGGGAATGACGATTTCATAA
GTTTCCCGAAATTTCAACATAACCGAAACTTGACAGTAACCGTAGCAACTGAACCGTCAT
TCCCACGAAGTGGGAATCTAGAAATGAAAGCAACAGGCATTTATCGGAATAACTGAA

Appendix A

-344-

ACCGAACCGACTAGATTCCCGCCTGCGCGGGAATGACGGCTGCAGATGCCCGACGGTCTT
TATAGCGGATTATAAAAAATCAGGACAAGCGCGGAGCCACAGACAGTACAAACAGTACG
GAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAAGCGAG
ACAACGCTGTACTGGTTTTTGTAAATCCACTATAAATATCCAATTGAAATCTTCAGACGG
TATATCAAATTTACACTTTTTTAATGTTTATGCCGCTGAAAAAATGCTAGTATATTTT
CTAATTGTCTGACTGTTTATTGTTGAGGAAAATATGAGATCTTCTTCCGGTTGAAGCCG
ATTTGTTTTTACCTTATGGGTGTTACGCTATATCATTATAGTTATGCCGAAGATGCAGGG
CGCGCGGCGAGCGAGGCGCAGATACAGGTTTTGGAAGATGTGCACGTCAAGGCGAAGCGC
GTACCGAAAGACAAAAAGTGTTTACCGATGCGCGTGCCGTATCGACCCGTGAGGATATA
TTCAAATCCAGCGAAAACTCGACAACATCGTACGCAGCATCCCCGGTGCGTTTACACAG
CAAGATAAAAGCTCGGGCATTTGTGCTTTGAATATTGCGCGCGACAGCGGGTTCGGGCGG
GTCAATACGATGTTGGACGGCATCACGCAGACCTTTTATTGCACTTCTACCGATGCGGGC
AGGGCAGCGGGTTCATCTCAATTCCGTGTCATCTGTGACAGCAATTTTATTGCCGGACTG
GATGTCGTCAAAGGCGAGCTTCAGCGGCTCGGCAGGCATCAACAGCCTTGCCGGTTCGGCG
AATCTGCGGACTTTAGGCGTGGATGACGTCGTTTACGGGCAATAATACCTACGGCCTGCTG
CTAAAAGGTCTGACCGGCACCAATTCAACCAAAGGTAATGCGATGCGCGCATAGGTGCG
CGCAAATGGCTGGAAGCGGAGCATCTGTGCGTGTGCTTTACGGGCACAGCAGGCGCAGC
GTGGCGCAAAATACCGCGTGGGCGGCGGCGGCGAGCACATCGGAAATTTTGGCGCGGAA
TATTTGGAACGGCGCAAGCAGCGATATTTGTACAGAGGGTGCTTTGAAATCAATTCC
GACAGCGGAAAAATGGGAGCGGGATTTACAAAGGCAACAGTGGAAATACAAGCCGTATAAA
AATTACACAACCAAGCAATTCGGAATAACAAAAATACATCGAAGAGCATGACAAAAGCTGGCGGAA
AACCTGGCACCGCAATACGACATTACCCCATCGATCCGTCCAGCCTGAAGCAGCAGTCG
GCAGGCAATCTGTTTAAATGGAATACGACGGCGTATTCAATAAATACACGGCGCAATTT
CGCGATTTAAACACCAAAATCGGCAGCGCAAAATCATCAACCGCAATTATCAGTTCAAT
TACGGTTTTGTCTTTGAACCCGTATACCAACCTCAATCTGACCGCAGCCTACAATTCGGGC
AGGCAGAAATATCCGAAGGGTCAAGTTTACAGGCTGGGGGCTTTTAAAGGATTTTGAA
ACCTACAACAACCGCAAAATCCTCGACCTCAACAACACCGCCACCTTCCGGCTGCCCGC
GAAACCGAGTTTGAACACCACTTTTGGGCTTCAATTTTCCACAACGAATACGGCAAAAAC
CGCTTTCCTGAAGAATTGGGGCTGTTTTTCGACGGTCTGATCAGGACAACGGGCTTAT
TCCTATTGGGGCGGTTTAAAGGGCGATAAAGGGTGCTGCCCAAAAAATCAACCATTTGTC
CAACCGCGCGCAGCCAATATTTCAACACGTTCTACTTCGATGCCGCGCTCAAAAAAGAC
ATTTACCGCTTAAACTACAGCACAATACCGTCGGCTACCGTTTCGGCGGCGAATATACG
GGCTATTACGGCTCGGATGACGAATTTAAGCGGGCATTCGGAGAAAATCGCCGACATAC
AAGAACAATGCAACCGGAGCTGCGGGATTTATGAACCCGTATTGAAAAATACGGCAAA
AAGCGCGCAACCAACCAATTCGGTCAGCATTAGTGCGGACTTCGGCGATTATTTTCATGCCG
TTCGCCAGCTATTTCGGCGACACACCGTATGCCAACATCCAAGAAATGTATTTTCCCAA
ATCGGCGACTCCGGCGTTTACACCGCCTTAAACAGAGCGCGCAAAACACTTGGCAATTT
GGCTTCAATAACCTATAAAAAAGGATTGTTAAACAAGATGATACATTAGGATTAAAACTG
GTCGGCTACCGCAGCGCATCGACAACCTACATCCACAACGTTTACGGGAAATGGTGGGAT
TTGAACGGGGATATTCCGAGCTGGGTGAGCAGCAGCGGGCTTGCCCTACACCATCCAACAT
CGCAATTTCAAAGACAAAGTGACAAACACGGTTTTGAGTTGGAGTGAAATACGATTAT
GGGCGTTTTTTTCCCAACCTTTTACGCTATCAAAAAAGCAGCAACCGACCAACTTC
AGCGATGCGAGCGAATCGCCCAACAATGCGTCCAAAGAAGACCAACTCAAAACAAGGTAT
GGGTTGAGCAGGGTTTCCGCCCTGCCGCGAGATTACGGACGTTTGGAGTCGGTACGCGC
TGGTTGGGCAACAAACTGACTTTTGGGCGGCGCGATGCGCTATTTTCGGCAAGAGCATCGC
GCGACGGCTGAAGAAGCTATATCGACGGCACCAACGGGGGAAATACCAGCAATTTCCGG
CAACTGGGCAAGCGTTCCATCAAAACAACCGAAACTCTTGCCCGCAGCCTTTGATTTTT
GATTTTTACGCGCTTACGAGCGGAAGAAAAACCTTATTTTCCGCGCGGAAGTCAAAAT
CTGTTTCGACAGCGTTATATCGATCCGCTCGATGCGGGCAATGATGCGGCAACGCAGCGT
TATTACAGCTCGTTTCGACCGCAAGACAAAGACGTAACGTGTAATGCTGATAAA
ACGTTGTGCAACGGCAATACGGCGGCACAAGCAAAAGCGTATTGACCAATTTTGCACGC
GGACGCACCTTTTTGATGACGATGAGCTACAAGTTTAAAGCGAGCCGCGATTTTGTAGA
AAACCGCAATGCCGTCTGAAGCCCTTCAGACGGCATTTGTTTCCCAACGCATCATCC
TGCCCGAAGCCTATGCCAATCCGTTTTATCGCATCGGCAACTCAAGAAAAATCCATTT
ATTTCCACGCGAGGAAGCGGTTTTTGTATTTCGGTTATTTTTGGTTGTTTCGGGTAATTT
ATGAGTCGTCAATCCCGCAAAAGCGGGAATCAGTTTTTTTAAAGTTTCAGCCATTTCCGAT
AAATTCCTGTGGCTTTAGCTTTCCGGATTCCCACTTTCTGTGAGAATGACGTGGTGCAGGT
TTCCGTACGGATGGATTCTGTCATTTCCGCGCAGGCGGGAATCTAGACGTTTCGGTTTCGG
TTTTTTTTGGTTAGTGCCGCAACATTAATTTCTAGATTCCCACTTTTCGTGGGAATGACGG
CGGAGCGGTTTCTGCTTTTTCCAATAAATGCCCCCAACCTAAAATCCGTCAATCCCGCGC
AGGCGGGGAATCTAGACATTCAATGCTAAGGCAATTTATCGGAAATGACTGAAACTCAAAA
AACTAGATTCCCACTTTTCGTGGGAATGACGTGGTGCAGGTTTCCGTATGGATGGATTCTG
CATTTCCGCGCAGGCGGGAATCTAGTCCGTTTCGGTTTCGGTTTTTTTGGCTAATGCCGCA
ACATTAATTTCTAGATTCCCACTTTTCGTGGGAATGACGGCGGAGCGGTTGCTGTTTTTC
CCAATAAATGCCCCCAACCTAACCTCCGTCATTTCCGCGCAGGCGGGAATCTAGTCCGT
TCGGTTTTCGGTTTTTTTGGCTAGTGCCGCAACATTAATTTCTAGATTCCCACTTTTCGTG
GGAATGACGGCGGAGCGGTTTCTGCTTTTCCCAATAAATGCCCCCAACCTAAAATCCGTC
ATTCCCGCGCAGGCGGGAATTTAGACATTCAACGCTAAGGCAATTTATCGGAAATGACTG
AAACTCAAAAAATGGAATTTCCCTCTTTTCGTGGGAATGACGTAGTGCAGGTTTCCGTACGG
ATGGAATTCGTCAATTTCCGCGCAGGCGGGAATCTAGACATTCAATGCTAAGGCAATTTATC
GGAAATGACTGAACTCAAAAAATGGAATTTCCGCTTTTCGTGGGAATGACGGCATTTAGAG
TTTCAAAATTTTCTAAATAGCTGAAACTCAACGCACTGGATTCCCGCTGAGCGGGAA
TGACGAAGTGGAAGTTACCCGAAACTTAAACAAGCGAAACCGAAGCAACTGGATTCCCA
CTTTCGTGGGAATGACGGAATGTAGGTTTCGTGGGAATGACGGGATGCAAGTTTCCGATGG
ATGGAATTCGTCAATTTCCGCGCAGGCGGGAATCTAGACATTCAACGCTAAGGCAATTTATC

-345-

GGAATGACTGAAAC TCAAAAAAC TGGATTCCACATTTTGTGGAATGACGCGATTAGAG
 TTCCAAAATTTATTTCTAAATAGCTGAAACTCAACGCATCGGATTCCCGCTAGCGGGAA
 TGACGAATTTTCAGGTTGCTGTTTTTGGTTTTCTGTTTTGTGAAATATGGGATTTTAG
 CTTGTGGGTATTTACCGGAAAAACAGAAACCGCTCCGCCGTCATTCCCGCGCAGGCGGG
 AATCTAGTCGGTTCCGTTTTCGGTTTTTTTGGCTAGTGCCGCAACATTAATTTCTAGATT
 CCCACTTTCTGGGAATGACGGGATGTATGTAGTGGATTAACAAAACAGTACGGCTTGC
 CTCGCCCTAGCTCAAGAGACGATTGTCTAAGGTGCTGAAGCAACGATGAATCGGTTTC
 CGTACTATTTGTACGTGCTCGCGGCTTCGTGCCTTGTCTGATTTTTGTAAATCCACTAT
 AAATTTAAATCCCACTATTTTTTTTGTCCAAAGTCAAAATATGCCGTCGGAACCTCGGC
 GCGACAAAAACGGCATCGCCGATAAAGCAGTCGCGTTGTCCGTTTTCAACCGTGAA
 CATCAGCCCAATTAAGGCTTTATGCAATACCCCTGGTTGCCAGTTCCATGTATTTTTTC
 TCAATTCAATACGGAATTTGATTTCGGAGGTGGAATCATTTGGATGTGTATACCTCTT
 TCGCGGAGCGTGC GGAAGATTTTGGCGGCTACACGAGCTGCGAACGATACCCAACCTC
 ACTGCGGAGACTTTGCATACGGTGTCTGTCGCCATCAATAGAAGCCGCGCCGATACTGTC
 TGGCGTTCCGACAGATTTCCAAAGCTGCTGTTGTAATCGCCGCGGATCGGTAAGGAA
 AAATCGGTTGTGCTTTCGCTGCGGACATTTTGGATAATCAATACGATTCGATGTTGGCA
 TCGGCAACCGCGCCTAAAATCTGATAGGCGACGCCAGGTTTTGTCGGGTACGCCGCGCAC
 TGTAGTCGGGCTTGGTTTTTATCGAATCGCATACGGTTACGGCAGCTTTTCCATGTTG
 TCGTCTCTCTTCAAAGGATAATTAAGTGGCATTCGCCCGCTTTCGAGGCTCTCAGTACG
 CGCAGCGCATCTTTGATTTTTCCGCGGAATTTCTACTGAACGGAATTTGAAAACCTTCGAA
 CCGAGGCTTGCAGGTTTCGATGATTTCTTCAAATGTAACCGTATCCATCGCGGCGGCTTCG
 GGTACGACGCGGGGTCGGTTGTGTTAAACCGCGTCTACGTGGTATAGATTTTGGCACTG
 TCGGCTTTGAGCGCGCGCGCAAGCGCAGCGCGGAAGTGTGGAACCGCGGCTCCGAGC
 GTGGAATATCGCCTTACGATGCTGATGCTTGGAAAGCCGGCAACGATGACGACTTTGCCG
 GCGGTAAAGTTCGGCAGCATTTTTTCTGCTCATCAATGCTTTTCGATCGGGCTTTGGTGTGG
 GCGGATTCGTTTTTGAAGGCGACTTCGACGCTGTGTAGCTTTTTGGCATCCAGCCGATG
 TCTTTCAATGCCATCGCAAAGGCCGATGGTTACTTGTTCGCCGCTAGCTAAGACGACG
 TCCAGCTCGCGCGGATCGGGATGCTCTTGCAATTTCTGTCGCCAGTGCACCGACTCGGTTG
 TTTTGC CGGCTACATGCGGATACGACGATACGATGCTGTGCTTCTTCCGCGGGGCTTTG
 GCGACACGTTTGGCTACGTTTTTGTATGCGTTTCGGGCGAGCCTACTGATGTGCCGCGTAT
 TTATGTACGATTAACGCCATGTTTTCTGCTCTTCTTGTGGGGTGTGCGGACGCTTTGGTT
 TGCTGGAAAAAGGGTTATTATTACTATTTTTTTACATGGAATTAAGAAGCGACTCGCTTT
 TCCCGCTCGCGTTTGTGACGCGGTACGCGAAAAACCTGTTCTTTTCAGATTGTTGACAAAA
 TGCCGTTCTGAACGGTTTCTAGACGCGCATCCGGACGACAATCAGGCGCGCGACACGCAAT
 TTGCTGGTGTGTCAGCAGTTTCGCTATGCTTTTTTGGCCAGTGCAACCGATTTCGCCAA
 TTCGTCCAAACGTGAACGGCGCTCTTCGCGCGTCCCTGATTTTCGATGATTTTTCCCGA
 TCGGTTCTGACGATATTCACATACCTGTGCGAACCGGAGTCTTCGGGATATTCCAAATC
 CAAAAGCGGACCGCGTTCTACTACGCTACTGACACAGCGGCAACGGCTTCGCGGATGGG
 GTTTTCACTCAAATGCGCGTTCTGAACACAGTTTTCGCGACGGGATTTGACGCGGACAAA
 CGCACCGGTAATCGAAGCCGTGCGCGTACCGCGCTCTGCCTGAATCACATCGCAGTCAAT
 CAAGATTTGTGTTTCAACGAGTTTTTCCATCTACGACCGCGCGCGAGGAAACCGCGAT
 CAAACGTTGAGTTTCTTGTGTGCGCGCGGACTGTTTGC CGCGAGCTTTGCGGAGCAT
 CCGGGAAGCAGTTGAGGCGAGGCAGCATCCCGTATTCGCGCGTTACCCAGCCTTGGTTTT
 ACCGCGCAGAAACGCGCGGACGTTTTTCACTCATGAAGCGGTACAAATCACTTTGGTATT
 ACCGCAATCAATAAGGCAGAACCGTCCGATACGGCAGGAATGAGGGGTGATTTTGTAT
 ATCGCGAGCGCTGTGCGCGCGCGCGAGATGCGGATGTAATCAGGCAATGCTCCCTCCCG
 TTAAAAACAGCAATAATAAAAGCCTTAATATGAAAAACACATTTAAGGCTTCTCAAC
 TGAATAATTTCTACGCCCTCTTCGGCTTTGCTCGGATAATCAAAAGCGGCTTGGCTTTG
 GCGCATACGTTTTCGGCAAAACTGCCATTAAGAGTGCATAGCCCGGTAGCTCGCGTG
 CGTACCCAACACCAGCAGGTGCGCACCGTTTTTCTATCGGCATAATCAACCAAATCCTGCGC
 CATTCTACCGCGCACCTTATTTGGCAACACGAGCTGTTTGACGGTATTTTCCACACCCAG
 TTCCTGGGCGGTGCGCTCGCGGCGCATCAAACATTCGTTGCTTTCGCGCAGCGCGCGCG
 TTCGTAGCTTTCTGTGTGCAAAAATTCGGGGGCGAGTGCCATATATTTCGCGAGGATTGGC
 AACGTCGACCAAAAGTCAGGCGCGCACCGTTTGACCCGCGCAAGCTCGGCGCGGATGTTTCAG
 GGCATTGATGAGCGTTTTCTGTCGCGTCAACGCGCAACCAAAATGTTTGCATATCGTA
 TTCTCCTTTTGCACCGCTCGCGGTGCGCTCTTGTGCGGATGGGCGCAGGGACAGTTTGGC
 CTGTTTTCATATAGACCGCGCTCGGGCTTTATACAAACAGCCGAAACGCCCGACCGCTTT
 CAGTATAATATGCGCTTCCGTGCATCAGGCATTTTTTGGCGGCTCTGCTTCACTTTT
 TGATTTGACGCAATCTGACGAGTTTCGACCATGTCCGACAACGCTTTGACCTCTTCGCGA
 CGCTTCGGCGGCATCGCCAGACTCTACGAGAGCTCTGCCTTGGCGCATCTTTCAACGGCA
 CAGTCTCGCTAGTCGGCTGGCGGCTGCTCGGCTCGTGGGCGGTGAGGCTTTTGGCGCGG
 ACGGCATCGGACGTTTGACTTTGATTGTTTGACAACGTTGCGGAATCGAATGTAAC
 CGCCAGCTGCACGCCCTGACCGGCGACTTCGGCAAAGCAAAAGTTACCGCCTTGC CGGAA
 CGCATTTACACAAATTAATCCGAATGCGAAGTGTGTAATTAAGAAATTCGTTTACCGAA
 GACAATTTGCGGAATACTTCGAAAAGGTTTTGATTTGCTCATCGACGCGATCGACCAA
 GTGCGCGTCAAGCAGCAATGGCGGCTTATTTTGTGGAACGCAAAACACCGTTTGTCTCTC
 AGCGCGCGCGCGCGGCAAAAAAATCCGCGTTAATCAACCAACCGGATTTGAGCGCG
 GTAACCCAGCAACCGCTGCTTGCAACCTGCGCTACACCTTCGGAAACAGCTACGGAATC
 AGCCGCGATACGAAAGCAAAATATGCGCGTGCCTTTCGCTGTTATTCGACCGCAAAATCTG
 CCGCGCAGTCTAGGGAGGCTTGTTCGCGAGATCCGCTCCGCAAGGCTTGTCTGCGCGC
 GGCTACGGTCAAGCATGCTGCTTACCGTCTGTTTCGGGCTATATTTCGCAACAGCGCGG
 GTGGAACACATCGCAGCAAAAAATAAGCAATCCGCTCTGAACAGGATTCAGACGGCAT
 TTGAACAACTATGGTTATGATTTAAGACAACAAGGATACGGAATAAAAAATTAACATTA
 ATATATGATTTCTAATAATACCAAGATATCGGAGAGCTATTTAATGGAATTCGTTAAT
 ATTTAGTTATTTTTTCATTTTTTATTAATGCTTATTCGATATTTTTTGTAGTATAAT

Appendix A

-346-

GTATATACCATAAGATACGTTATCGCAAAATATGTATCCTAAGAACAAGTTTTATATTAT
TAGTGGTAATACTTTGCAGTATGTATTACATATATTGCCGTTATCTTGACCAACAAAAAG
TAGCTTATTATTGATGATGATGAACAATGTATTCTATTGTTTCATCTATACAAAGATTATG
GTATAAACTCTCCACATATGCGAGAATTTACGCAGGAAAAATATTGTTTAGATTTCAG
TAAGAGCTAAAAATTACGCTGAATTACTTATGGAAGATGATATATCAATTAGTAAAAAAA
TTTTGGGAATAAATTTATCATTTATGGGTCGCTACCTGTAATATACGTAATGTAGATA
ATATTGAAGTAAAAGAAGCTACTGGTTATATAGATAGATCCAGTACTGATTATATTGTCT
CAAGAACTTAAATTCAGACATTATATTAATTAAGAGGTTTTAGCAAGAGTGCCGTC
AAATATAGGGCGCATCATCGAATTCGCGAAAGACAAACGCTACGATGAACGTTTCAAGGA
TTTGAAAAAAGAAATCCATAGGCTATCTGAACCGGCATCCCGGTTTTGGTGCCGACTACCT
GAAGGCGGCAATCAAGCTGTCGGTTTCAGAAAAACCAACATCAGCACGCCTAAACCGTAT
TCACAACCTGCTCCTTTTCAAAACATTTGCATTTAAAGCCGTTATAATGCCGCTCTGAAC
ATCTGCCGCGACCATTTATACGTGAATGTCGGCAGATTGTTTCTTTGTAAACTTATAT
TAAAATCCACTTACCGATTACAGCCATGCCGCCATCCCTGCCCATCTGCACCATCCGA
GCACACTGTGCGATGGGTATTCGCGCAACCCGTTACCGATTGCCCCAGGATTGTTTAT
TCCGCCCGATGCAATTGAAAGTCGTATTGGGCAGCTTCCAAGGCCCTTTGGATCTACTGCT
GTATCTGATCCGCAAAACAGAAATATCGACGTACTGGATATTCCGATGGTGAAGATTACCGA
GCAGTATCTGCACTACATCGCCCAATAGAAACCTATCAGTTTGATTGGCGGCGGAATA
TCTTTTGATGGCAGCAATGCTGATTGAAATCAAAATCGCGCCTGCTGCTGCCGCGTACCGA
AACCGTCGAAGACGAATTCGCGCAACCGGACCCGCGTGCCGAGTTGGTGCCGCGCCTGCTGGCTTA
CGAACAGATGAAGCTGGCGGCGCAGGGTTTGGACGCGCTGCCCGAGCCGGACGGGATTT
CGCGTGCGCTTACTGCCGCTGGAATTCGCGTCGAAGCCAAGCTGCCCGAAGTCTATAT
TACCGACTTGACGCAAGCGTGGCTGGGTATTTGTCTCGGGCAAAACACACGCGCAGCCA
CGAAGTAATCAAGAAACCATCTCCGTGCGCGCGCAAAATGACGGCAATCCTGCGCGCTTT
GAACGGACACGGAATATGACGTTTCACGACCTGTCAATCCCAACAGGGCGCGGCTTA
CGTGGTCGTCAACTTCATCGCACTGTGGAGCTTGCCAAAGAAGGATTGGTCAGAAATCGT
GCAGGAAGACGGTTTCGGAGAAATCCGAATCAGCCTCAATCATGAGGGGGCGCATTAGA
CGGCATTTCCGGCACACGAGGGCGGCGCGATGTGTTCTAATACGCCCAAGCCGCCACCA
AAAATCCGGGAGACACGCCATATGACCGGCATCATACATTGCTGCTGACACCGACCTCT
ACAAATTCATCTGCTGCAAGTGGTTCTGCACAGTTTCCGCAGACGCACAGCCTTTACG
AATTCGCTGCGCAACGCGCTCGACCGTCTATCCGCTTGCCGACATCAGGGAAGACTTGG
AAGCCGAACCTCGACGCGCTCTGCCAACTACGCTTCACCCACGACGAACTCGGCTATCTGC
GCTCCCTGCGTTTCATTAAGGCGACTTTGTGATTATCTCGAACTCTTCCAGCTCCAAC
CGCGCTTTGTGCGAAATCGCGCACAGACGATAAAGACCGTCTGAACATCCGCATCGAAGGTC
CGATGATACAGGCGATGTTTTTGAATCTTCATCCTCGCCATTGTCAACGAACTTTACT
TCCGCCGCTGGAACCCCTGCACTCATAGAAGAAGGCGAACCGCGGCTTCAAGCCAAAG
CCGCGCGCTTCAAGAAATCGCGCCGCAAAACCCGACGAACCGCCCTTCTGATTT
CCGACTTCGGCACGCGCGCGCGCTACAAGCTCGCGTGGCAGGAACACGTCATCCGCACCC
TGCTTGAAAGCCGCCCCCGCATCTGACGCGGCACAGCAATGTCTTCTCGCCAAAAAAC
TCGGCATCACCCCCATCGGCACCATGGCGCACGAGTTCCTGCAGGCATTCCAGGCCCTCG
ACGTACGCGCTGCCGAATTTCCAAAAGGCCGCGCTCGAAAGCTGGGTGCACGAATACCGGG
GCGATTTGGGCGTTGCCCTGACCGACGTGGTCGGTATGGATGCCTTCTGCGCGATTTCG
ACCTCTATTTTCGCAAACTTTTCGACGGGCTGCGCCACGACAGCGCGACCCCTTACGTTT
GGGGCGACAAAGCTTACGCCCACTATCAAAAGCTCAAAATCGACAGCCGCAACCAAAATGC
TGACCTTCTCCGACGGGCTGGACATCGAACGCTCTTGGGCATTGCACCAATATTTCAAAG
ACCGCTTCAAAACCGGCTTCGGCATCGGCACCAACCTCACCACGATATGGGGCATACGC
CCTTGAATATCGTCTTGAACCTGGTCGAATGCAACGGGCAGTCCGTGCGCAAGCTGTCCG
ACTCTCGGGGCAAAACCATGACCAACACAGCACCTTCTCGCCTACCTGCGCAAGTGT
TCGACGTACCCGAACCCGAACGCGGTAAACCGGAGAAAAGCGCACAATTCCTGTTTC
TGCCGCATAAAATCTTTTAAATACCGCCTGATTGAAATTAACCGAAAGACCGAACTTC
ATGAACCTACATCAAAACCTGCGAACACGAAGCCGCGCGCCCTTTGCCGCCGAGGCATC
GCCGACAGCCCTATTGTTTTGACGCCACCAAAACGCGCAACACGGCGATTTCAAATC
AACGGCGTGATGGGTGCGGCGAAAAAAGCCAAACAAAACCCGCGCGAGTTGGCGCAAAAG
GTCGCCGAAGCATTTGGCGGACACGCCGTGATTGAAAGCGCGGAAGTGCCTGCGTCCGGC
TTCATCAACCTGCGCCTGCGCCCCGAATTTCTCGCGCAAAACATTAGACAGGCCCTTGAAC
GACGCTCGTTTCGCGGTGGCAAAACCGCAAAACCGCAACCGCTCGTTATCGACTATCTCT
TCGCCCAATCTGGCGAAGGAAATGCACGTCGGCCACCTGCGTTCCAGCATCATCGGCGAC
AGCATTTGCGCGCTGTTGGCATTATGGGCAATACCGTTATCCGTCAAAACACGTCGGC
GACTGGGGTACGCAAGTTCCGTATGTTGGTCGCTTATTTGGTCGAGCAGCAAAAGACAAT
GCCGCGTTCGAGCTGGCGGATTGGAGCAGTTTTACCGCGCCGCCAAAGTGCCTTTGAC
GAAGACCTGCGCTTTCGGACACCGCACGCGAATACGTTGTGAAGCTGCAAGGCGGCGAT
GAAACCGTTTTGGCATTGTGGAACAGTTTGTGATATTTGCTCTCGCACGCCCAAGCC
GTTTACGACACGCTGGGCTTGAAGCTGCGTCCTGAAGACGTGGCAGGCGAATCGAAATAC
AACGACGATTTCGACGCCGTGGTCGATGATTGGTTCAAAAGGCTTGGCGGTTGAGGAC
GACGGCGGAAAGTCTGTTCTTGGACGAATTTAAACAAAGAGGCGAACCCGCGCA
TTTATCGTGCAAAACAAAGCGGCGGCTTCTCTACGCCTCCACCGATTGGCGTGCTG
CGCTACCGCATAGGCGCTGTGAAGCCGACCGCCTGCTGTACGTCGTCGACCAACGCCAA
GCCCTGCACTTCCGAACAATTTTCACTTCCCGCAAGCAGGCTATCTGCCGGAAC
GTCGGCGCGGCATTTATCGGCTTCGGCACCATGATGGGCAAGACGGCAAGCCGTTCAA
ACGCGCAGCGGCGACACCTGAAACTGGTCGATCTGCTGACCGAAGCCGTCGAGCGCGC
ACCGCTTTGGTGAAGAAAAATCCGAATGGGTGCGGACGAAGCCGCTAAATCGGT
AAAACCGTGGCATCGCGCAGTCAAATACGCGGACTTGAGCAAAACCGCACGAGC
TATGTGTTGACATGGGATGCCATGCTCTCGTTTGAAGGCAACACCGCCCCCTATCTGCAA
TACGCTACACCGCGTGCAAGCGTGTTCGCAAGCAGGCGAATGGGATGCAATGCG
CCAACCGTTTTGACCGAACCGCTGGAAAAACAGCTTGCCGCCGAGCTGCTGAAATTTGAA

Appendix A

-347-

GACGTA CTGCAAAGCGTGGCGGACACGGCGTATCCGCACTACCTCGCCGCTACCTCTAT
CAAATTCGCGACCTGTTACGCGCTTCTACGAAGCCTGTCGATATCAAAGCCGAAGGC
GCAAGCCGCAACAGCCGCGCTGCAACTGGCAAACTACCGCGGACACGCTGAAACAAGGC
TTGGATTGCTGGGCATCGATGTGTTGGACGTAATGTAAAACCGCACCGCCGATTGCGG
ACAACAGCCTCGCCATCCTTATCCGAATCTGAAAAAGCGCGCGATACACCGTATCCGC
CGCCCTCCCAAATGCGAAACAAACAAACGCCAAGCAAGCAAGCAAGCAAGCAAG
CAAGCAAGCAAGCAAGCAAAAAATTATAACCCCTTCTGCGGACGACGCACTTTCCGC
GGGCGCATTTCCCTTTTCCCGCCCTCAAATCCGCCTTTTCTTACGGCAGGGTTTCAGC
CCGCCTCTTTCCCTGTTTTCCTTTCCCGGACACGCGTGCGCTCCCGCTGCGCGACTGTG
CTGCACTTTCGCGCGCCGACGGCATCGTTCCGCCATCCGGTTCTCTGTTTTACATACCCC
TGTTTCAGAAAGAAATGCAGATGTTTCAACACACAGGACGACACATAAAGCACC GCCCTA
TGTTGTTGCCCTGATTTGGAAGGGGTACGCCTCCCAAATAAAGTCTGATCTGCGGCCCC
GAAGGACAGATGTCGAGTGGCGAAGTTTCAACGAAAGGAAATACGATGAATATTAC
ACCCTGCTCTCCAAACAATGGACGCTGCCGCCATTCTGCGGAAACGGCTGCTGCTGCC
CTGCTGATACTGTTGCCCAATGCGGTGTTTTGGGTTTTGGCACTGCTGACCGCCACC
GCCCCCGGATGTCAATTTGACTATCTTCCCGCGCGCTGCTGATCGCCCTGCCCTTGG
CGTTTCGTCAAAATTTCCCGGCTATTGGCGTTTTGGCTGGCGGTTTTGTTTTGACGGCTG
ATGATGGTGATCCAACCTCTCCCTTTTATGGATCTCATCGGCGCCATCAACCTCGTCCCC
TTCATCTGACCGCCCGCCCGCTTATCAGATAATGACCGGGCTGTGCTGCTGTATATG
CTGGCGATGCGGTTGTGTTGACAGAAAGCGCGCCAAACCGACTTCCGGCACATTGCC
GTCTGCGCGCGGTTGTGGCGGACGCGGCTATTTACCGGCCATTGAGTTACTACGAC
CGGGGTGCGATGGCCAATATCTTCGGCGCAAAACACTTCTACTACGCCAAAGTCAGGCG
ATGCTCTACACCGCTCAGCCAGAATGCCGACTTTATTACCGCGGCTGGTCGATCCCGTC
TTCTTCCCTTTGGGCACTCAACAGCGTGCCGCCACGCACTGAACGAGCGGAAATCTCAA
AAAATCTCTTTATCGTCGCCGAATCTTGGGGCTGCCGGCAATCCGAACTTCAAAC
GCCACTTTTGCCAAACTGCTGGCGCAAAAGACCGTTTTTCGGTTTGGGAAAGCGGAGT
TTTCCCTTCACTCGGCGGACGCTGGAAGCGGAAATGCGCGAATGTGTGCTACGGCGGT
TTGGCGGGTTTCGCACTGCGCGCGCGCGGACGAAAAATTGCGCGCTGCTCCCCAAC
CGTTTGAAACAAGAAGGTACGCCACCTTTCGATGCAACGCGCGGGCAGTTCGCTTAC
GACCGCTTCAGCTGGTATCCGAGGCGGGCTTTCAAGAAATCAAACCGCCGAAACCTG
ATCGGTAAAAAAACCTGCGCCATTTTCGGCGGCGTGTCGACAGCGAGCTGTTCCGCGAA
GTGTGCGGATTTTCAA AAAACACGACAAGGGACTGTTTTACTGGATGACGCTGACGAGC
CACGCCGACTATCCGAATCCGACATTTTCAACCACAGGCTCAAATGCACCGAATATGGC
CTGCCCGCCGAAACCGACTCTGCGCAATTTACGCTGCAACCCAAATTTTCGACCAA
CTGGCGGATTGATCCAACGCCCGGAAATGAAAGGCACGGAAGTCATCATCGTCGGCGAC
CATCCGCGCGCCGTGCGCAACCTCAATGAAACCTTCGCTACCTCAAACAGGGGACGCTC
GCCTGGCTGAATCTCAAATCAAATAACAACATGCCGTCTGAACGACCAACAGCCTTC
AGACGGCATTTTCAGACAGACCGACCTTCAAGCCCACTTTTTTTCATCATCTCCGATAA
ATTGCTTTGTATAGTGGATTAACAAAACAGTACGGCGTTGCCTCGCCTTAGCTCAAAG
AGAACGATTCTCTAAGGTACTGAAGCACCAAGTGAATCGGTTCCGTACTATTTGTACTGT
CTGCGGCTTCTGATTTGGTTTTCTGTGATTTTGTTAATCCGCCATAAAGACCGTCGGGCACT
TGCAGCGCTCATTTCCGCGCAGGCGGGAATCCAGAACGTGGAATCTAAAGAAACCGTTTT
ACCGGATAAGTTTCCGCGACCGACAGACCTAGATTCCCGCTGCGCGGGAATGACGGGATT
TTAGGTTTCTGATTTTGGTTTTCTGTCTTGTGGGAATGACGGGATGTAGGTTTCATAGGA
ATGACGTGGTGACAGGTTTCCGTATGGATGGATTCTGCTGTTCCCGCGAAAGCGGGAATCCG
GAAACCCAAAGCCACGGGAATTTATCGGAAAAACCGAAACCGCTCCGCCGTATTCCCGC
GCAGGCGGGAATCTAGGTCTGTGCGGTGCGGAACTTATCGGATAAAACGGTTTCTTCAGA
TTTTACGTTCTGATTCCCGCTTTCGTTGGGAATGACGGGATGTAGGTTCTGAGGAATGAC
GTGGTGACAGTTTCCGTATGGATGGGATTCCTCTTTCGCTGAGGCTGACAGATGCCGTCT
GAAAGACTTTCAGACGGGATAGCTTTTTCTCTTTGAATTTATAGTGGATTAAACAAAATC
AGGACAAGGCGGCGAGCGGACGACAGTACAGATAGTACGGAACCGATTACTCGGTGCTT
CAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCGTACTGGTTTTTG
TTAATCCACGATAAATTTGCCACAAAAAGCTGCCTCAAATGAATACCGGGCAGCTTTT
TGTTGATATGACTCCAATCAGCGGTGTTGCGGATTGTAACGTTTTTCAAACGCGAGGAAT
ATCCAGCCTAAGAAAGTCGTATCAACAGATAAATCAGGGCGACGGTGTAAGCGGTTCT
TCATAAACCGAATACCGGCGCGTAATCGTATTCTGAACATACGCCAACTCCGCCACAGCA
ATGACCGACAGCAGCGAGCTGTCTTCAAGAGCGTGATGAACCTCGCTCGCCAAAGCGGGC
AGCATGCGGCGCAATCCGTGCGGCGAATCACATAGCGCATCGCTGCGGATAGGTCAGC
CCCAAAGAACGCGCGCCTCCATCTGTCTTTGTCTATAGACTGGATGCCCGCGCGGAAA
ATCTACAGATATACGCCCGGAGTTGGCGATCAGTGCCAAAGAACCGGCAATCAGCGGC
CGTATCCGCGACGCGAGCGGATTGCCGCTCGCGCTGACCAAAATGCCGTCTGAAGGA
TGGACGAAAAACGGAACACACATACGCCCAAATCACAATCTGCACAAACAGCGGCGTA
CCCCGGAACAGCGTAACATACAGCAGCGAACTTTACGCAACGCCACGCCAGCAGCGC
ATCGGCGCACCGGCTTTTCCAAGTGAATCAGGCGCGCAACGCCAAACACAGACCCAAT
ACCGAACCGCCCGCTTGCACGACCGCTCAGCCCCAAGGTCGTAGTGCGCGGTAAGA
AACATCCAGCGGTATTCGTAATAATGTCAAACGAAATCCATAAACCGTCCGTATCAA
AAACCGGCGGAATGCGCCGTTGCAAAATAATCCGCCATTTTACCGTAAACCGCGCGC
CTGAACTTTTTATCGCGCGACGCGGTTGCGCGTCTCCGCAAAATGACGGGCGCG
GGTTTTTCAGACGGCATTTGCCGTTCAAAGCGGTGCGGTGTCTTTACCAAATGCCCAACCA
TTCGCCACGGCATCCATCCAATCCTTATGCCCCGCGCTCCTGCTGCTGCGGCGTA
CGCCACGGCGCTTGGGATTTTAGCTTTCCACAATCCTTTGCGTTCCCTTTCCGCGCTG
AATTTGAGCGTCGGCATTAATCGGCAAAATCCGCTTATCCTGCTGTTCTTTAGCATAACT
TTTATAATGCCAGCGCGCGCTCCTGCACCTGCATCAGGTTCAAATCGGTTTTGCGGAC
AGAAACCTGCGCCACTTCCGCGTGGTAGCGGTGCGGTATCGAACACGCGCACGCTGACTTT
CCTGCCTTCCGCGCGCGCGCAGGTTGTGCGCGAACGCGTGCCGTAAGCCTGTTTCAT

Appendix A

-348-

CTCCGGCGCGTCGATATACGCCATCCGGATTTTGTGTTTCGCGCCGTCGCCGTCGATAAC
GTGAAGGTGTCCCGCTCATAGACTTTGGACACCGTGCCCTGTGTAGCGGTGGCCGGATTT
CGCCGATGCTCGCGCGCGCGGCGCGTCGGAACCCGCGTCCCTGCCGCGCCGAGTAC
GTCGAGTACGGCAACCGCCGTCGCGACCGCCTCGCTGCCGTACCCCGTATAACCCAAACGC
ACCCAAAAGCGACAGGGGCGACGGGAAGCCATTTTCATGATTTTTTAACTCTGCATATTTTT
CAAATGCCGATGCCGTCTGAACATATCGGAATCGGATTTTCAGACGGCATCTTAACGTCAG
GATTACCCTTGGCAGGGATAGATGACTTTTCGCACCTCTTCCGTCCCCAAAATCAACACA
TCGGCGGCATCGCGGGCGAATATGCCGTTTTCGAGCACGCCGCTGATTTTGTGATTTCG
TCTTCCATCGTCAGCGGCTGATCGATATTCAGCCGTGGACATCGACGATTGTTGTTGCCG
TAAAACGTGGTGTAGCCGATACGCAGTTTCGGGCTGTCCGCCATAGCGAGCAGTTTTCGCG
GAAACAAGAGAGCGCGCTTTTCGACGACTTCCACAGGCAGAGGGAATTTGCCCAAACGT
GAAACATATTTGCTTTTCATCCGCAATGCAGATGAATTTTCGACGCGCTGGCGACGATT
TTTTCGTTGAGGTGCGCGCGCCACCGCTTAAATCATTTCAGGGCGTGGTTCACCTCA
TCCGACCGTCGATATAGACCGCCAAACCCGATACTTCGTTCAAAGAAACGACGGGAATA
TCGTACTGGGCAAGCAGTTTCGCCGATTTTTTGGAGTAGATACCGCGCTTTGATTTTT
TTGCCGCTCTTACCCAAGGCTTCGATGAAAAAGTTGATGGTCGAGCCGGTACCGATGCCG
ATATATTCATTTTCGGGTACGAATTCGACTGCTTTTCGCGCGCGATGCGCTTGAGTTTCG
TCTTGTGTCTCATATTTTTGTCTTTTGGGAAACCGTATCAACAAACAGCCGCCATCTTA
ACATTTTTTTGACGCTCTGCCGCGCGCTTCAAATGCGTACCAGCAATACCGCGCGCTG
CGCTCTATGCCCTTACATCGCGCCGAGATAGCCGAGTTTTTCGTTGGTTTTGCTTTGAT
GTTGACGCACGAAATGTCTATGCCCAAATCGCGCGCGATGTTGGCAGCATTGCGGAAT
GTGCGGCGCGAGTTTGGGTTTCTGTGCAATCACGGTCGTATCGACATTGACCGCTGCCA
ACCTGCGCCTGAACGCTTTGATACGCCGACGCAAAAGGACGCGGCTGTCCGATCTTT
GAACCTGCGCGCGCTTCCGGGAAATGGCTGCCGATATCGCCAAACCTGCCGACCGAG
CAGCGCTCGGTAAACGGCTGTCAGCAGCGCATCGGCATCGGAGTGTCCGAGCAGCCCTTT
TTCAAATGGGATTTCAACTCCGCCAAGTATCAGCTTTCTGCCTTCGGTCAGTTGGTGGAC
ATCGTAGCCCTGTCCGATACGGATGTTCTCATCTGTTTGTGTTCTGATGTTTGAATTG
AAGTTACAGCAGGCATCGAGCAGCAGCCTGACGATGTATGCGTCTGCGGCTGCGTCAGTT
TCAAATTCGCGCAGTCCGCTGTATCAGTAGCGGACGCACACCAATTTTTCCACGGCGG
ACGCTTCATCGGTAATCCGTCCTCAAGTTTTCGCGAGCAATGCGCGGTGCAGCAGCCCG
CGCGGAAAAGCTTCCGCGCTTTGCGCCTGCCAAAGGCTCGTCCGTCGACGGTTGCACTAA
TGTTCCACCGCTCCGCGCACTTGAGCGTATCGGCAATGGGAATTGCCAAAATCCCGCTT
CGCGCGGCTTGGCCGCTGTTCTATCAACCGCTCAAAGCTTCAGACGGCAGGCAGCAAC
GCGCGGCATCGTTCACGAGATATGTCGGTTTCCGCGCGCAACCGGTTTCCAACAGTT
TTGCCACACCGTTGCGGACGGTTTTCGGCGCGGCTGTGTCGCGCTTTTCCACACCCGAA
CCTGTGGAATGCCGCTGAACTTATCGGCAACGCTGTCTCGGCGAGACGACAAACGA
CGGTCAAATCGACGGCTCATGCCGTTCAAATCCCAATCGTATGTTCTAAACGGTTT
TGCTTCGATTTTCGACATATTGCTTGGGTTTGTCCGACCGAAACGCGCCCGATGCCG
CGGCGGGAATACGCGCGATATTTTTCGCTTCATGCGTCCGTCCGCGCTTTTCAGACGG
CACGGCTTCTTTCGCGAGATACAGGCTTCGCCCAAGCCGTCCAATATTGCCCGTTCGCG
CGCAACTCGTTTTCGTCGCGCTGATGACTTTTCAGTTTTCGCGCTGCGTTTGGTTTCGCT
ATGCACACCGGTTTGGTTTTCATTTTTTCTCTGCGGCGCACCCATCAGGTCGAACG
CCGCGCGCTCATAGCAAGATAGACTTCGCCCAAAGTTTCGAGTCGATCAATGCGCGGTG
CAGGACGCGCTTGTGCTGCGTCGACGGAACGTTGCAAGGCATCCAGGCTGCGTTT
CTGCCCGGGGAACATTTTCGCGCGCATCGCCAGGATCGGTAACGGTACAGCCGAGTTT
CTCAACGGTTCGCAACCCCATCCGCGGAACTCCATATTGAGGAAGCCACGTCGAATTT
GGCATTTGTGATAATCAGTTCCGCAACCGCGCAGGAAATCGGCAATCTGCCTGCCGACCTC
TGCAACGGCGCGCGCTTTTTCCTTCCAAACCTGTATCGTCAAGCCGTGGACGCGTGC
CGCTCTTTCGCGCATATCGCGCTCGGGTGGACATAGAGGTGTCAGGTTTTTGTGCGTCAT
TTGGCGGTTGACCATTTCCAAACCGGCAACTCGACCAAGCGGTGCGCGCGCTCGGCATA
CAGACCGGTGGTTTTCGATTCGAGGATGATTGCGGTGTCGTCATATCGGTGCTTTCTT
CTATCTTCGTAATGCTTATTTTTTAAGCAATGTATTTTCTGTTTTCAATTTCAATGCA
CAAACCCACTTATTCAGTGTGTTTCAACATTTGGGACAGCGGATTTGTGATTTTGGGG
ACAATTTTTTCAGACGGCATTAAGGTTTTTCTGATTGCCGCGCGCTAAAAACCGC
CTTTTCGCGCTTAATCAAAAATACCGACAACGGAATATTGCCCAAAGCGACAATCAGATAC
AACAAGGAAATGCTGTCAAACAAAACAGCAACACCGCGCTCAAACGGCAGCGGAACCC
ATAAAAATACCGTTAACGATATTGTTGGCGGCAACGGCGCGGGCGCGGAAGTCTCGCTA
CTGGCGGTTTTCGACCGAGGTATAGAGCGGAACGGAGAAAAATCCGCCGAAAAAGCCGATC
AGCGTCATCACCGCATCACGGGATATGCCATCCTTTCGATAAAAACCAAAAATGCCG
TTCAGCCCTTCAAACGGGTGTCGTCGTCAGCCACACCAAAACCAAGCCGCAACCGTC
AAACCAACGCAACCAACCGTTACCCAAGCCAACATCAGGCGTTCCCTGCTGAACCTGGCA
CACAGTACCGAACCGCGCGCAATACCGATGGAAAAACAGAGCAAGCATCAGGTTGAAAAACA
TTGTCTGTTGCCGCCAGATGGATTGGGTAAAGGTCGGCAGTTGCGTGGTATAAACCGCG
CCGACAAACCAAAACCAAGAAATACCGATAATGGCGGTAACCAACGGGCTTGTGCCGACCC
GTTTTCAGCAGCAGGATTTTGTGCCACGGACAATATTCACCTCAATTTGTGTATCGGCA
GCCTTGGCGGGTACGGACGGCATAAACAGGCTGCCGACCGTGCTCCGACGGCGACAGC
AAAACAGTATCCCGACAATATAAGGCGGTACACCTGCCACCGCGTTCCCAAAATCTGA
CCGAACAGGATGGCGACAACCGTACCCGATTCATCAGGCTGTTGCCCATCATCAACTCT
TTGTCTGTCGAGATAATCGGGCAGGATGGCGTATTTTCAGCGGCCCGAACAGCGTCGATTGC
GCGCCCATGCAAAACAGACACGCCAAAGCAGCGGGGACAGCCGATATAAACCCGATAT
GCCGCCACCGCATATGATCATTTCCAGCACCTTGACCAACGCGCAAAACGGCCTTG
TCGAATTTGTTTACCAACTGCCCGACAGCGAGGAAAAACAGGAATACGGCAAAATAAAC
AGCAACGCGCCCAAGTTCAACATCTGTCCGGCAGGACGGAAGCCGTTTTGCCCAAACCG
TAAACCCCAATCATCAAAACAGCGCGGTTTTGAACAGATTGTCGTTGAACGCGCGCGAGA
AACTGCGTAGCGAAAAAGAGGTGCGAAACGGCGGCTTTTAAACAGTCCCAACCGCCTTTT

Appendix A

-349-

TTAGCGTACATCGTTTTCCCTCTCTTTTTCAATCAGTTTACTTGTGCAATCATCATCCAT
CAGGATGCGGGTGC GCCGCCCTTCCAAGTCGTCAAAGTGCCTGTTTGGCCGACCA
AAAAAACAGCCGATGACAAACGCCAAATAATGCTGATGGGCACCAATATAAACATGCT
TTCCATCACATATTCCCTGTCAAATCGTTCAAACAAAAGTCTGCCCGACACGGTCAGA
TATTCGTACGCAAAGTTCGACGGGAGCTTCGTCAAAAAACAGCTCGATACGGTCTTTG
ACCACGCGCAATATTGGGGGATTTCCGTCTGACCGAACGGCGACAGGACATGATTTTCC
ATTCCGCCCTTCAAGTTTGACGGCAAAACGCCCGCTTTCGCCCGTGTCTCCGATTCTGTCG
TCGGCAAGCAGGATGAAAAAGCCTATATGCCGTCCCGATTGGTCATGAATACTGAAATAA
TGCATAAATTTCCACCCGCCCTTTTTTTCAGACGACACCAACTAAAAACAGGGCGAATGTA
CCAGTTTGGACGGGAAGAATGCAAGAAATCTCCCTCCCCAGCCGAAACACCGGCAA
ACCGCATATCCCCCTTTTTTCCGTCAAATGCCTGACTTCCGCCATTTTCACGCAAACGC
CCGATTAAAGCCAAGCAATTGCAAAGATTTTTTGTAGAAATAGCCTGCTTCTTTATCAAC
CTTTTCAGACGGCCCCACTACTTTCCCGCCAGGAAGGCAAAACGGATTTCGGCACGAATC
CGTTAGTATCCGTGTCCGATTCCAATGCCGTCTGAAACTTTCCGGAGTAAGAAAATGTC
CCAAAAATTGATCTTGGTTTTGAACTGCGGCAGCTCGTCCCTCAAAGGCGCGGTCTGGA
TAACGGCAGCGGGAAGTCTGCTCAGCTGCCTTGCCGAAAAACTCAACCTGCCCGATGC
CTACATCACATTCAAAGTAAACGGCGCAAAACACAAAGTCGATCTGTCCGCACATCCCGA
CCACACCGGGCGGGTCGAAGCCCTGATGGAAGAAGTCAAAGCCACGGCCTCGACAGCCG
CATCGGGCCCATCGGCCACCGCGTCGTACGCGCGCGCAACTGTACAGCGAATCCATCCT
CGTTGACGACGAAGTCAATTGCCGCATCGAAAAATGCATCCGCTCGCCCCCTGCACAA
CCCCGCCACCTCTTGGGCTGCGTGCCGCGCAAAGCATTTTCAAAGGCTGCCCAACGT
CGTCGTATTCGATACCTCCTTCCACCAAACCATGCCGGAAGTCGCCACAAATACGCCGT
TCCGCAGGAGTTGTATGAAAAATACGGCTGCGCGTTACGGCGCGCACGGTACCAGCTA
CCGCTTCGTGCGCGACGAAACCGCGCGCTTCCTCGGCAAGACAAAAAGACCTCGGTAT
GGTCATTGCCCACTTGGGCAACGGCGCGTCCATTACCGCGTCGCCAACGGCGAATCGCG
CGACACAGTATGGGCTTACCCCGCTGGAAGGGCTGGTAAATGGGTACGCGCAGCGCGCA
CATCGATCCTTCCGTATTCGGCTTCCCTCGCCGAAACGCCAATATGACATCGCCCAAT
CACTGAAATGCTGAACAAAAATCCGGTCTGCTCGGCATTTCCGGCTGTCCAACGACTG
CCGCACCATTTGAAGAAGAGCCGCCAAGGGGCATAAAGGCGCAAAATTGGCCTTGGATAT
GTTTATCTACCGCTTGCCAAATACATCGGCAGTATGGCGGTTCGCCGAGCGGTTTGGGA
CGCATGGTCTTTACCGCGGGCATCGGCGAAACCTCCGACATCATCCGCGAACGCGTGAT
CGGCTACTTGGGCTTCCCTCGGTCTGAACATCGACCAAGAAGCCAACCTGAAAGCCGCTT
CGGCAACGCGCGGTGATTACCACTGCCGACAGCAAAGCCGTTCGCCGTGGTCAATCCGAC
CAACGAAGAGCTGATGATTGCCACGACACTGCCCGTTTGAAGCGGTCTGTAAGTTTTAT
CCGCACACGAATGCCTCCGGAATGGAGGCAGTTTTTTTATCCGGCTTTCATGCTTAA
ACAGCACTGCCTCTTTTTCAGACATTGACGGTTGCAGCCGTACCTGAACCTTATAGTGG
ATTAATTTAAATCAGTACGGCTTGCCTCGCTTGCCTACTATCTGACTGTCTGCGG
CTTCGTGCGCTTGTCTGATTCTTAATTTAATCCACTATAATGATTAACTATTTTTTAATC
ATGTTATATTTTTCCATAAAATACATGACATTAAGATGTTTTTCCACAAAAGATACACAC
ACCGGCAAAACACCGCTGTGTTTTATCTTTCTTATGCCTATTTTTTAATCATCGTATTTT
TATCTTTTAAATTTCAATACGCAAACTAATTTATACACACGGTTTTTACATCTTTAGACTG
CTTCCGTGTGTATAGTGGATATTGCCGTTTTCTTTCTGACAAAAATGCCGTCTGAGAAC
TTCAGACGGCATTTGAAACATCGGAATCAGCGGTTTTGTTCAATACCACTCGATAAACTTG
TCTGCTTTGACAAAAACAGCAGCGGCTCGCTGCGGCTGCCGTGCGAGCGGACGACAAAC
ACGCCCCGGCGGCCAACGACCGTATTCTTTCAACACGCTGATGTTTCGGCGGTGTTG
GCGGTTACGTCGATTTGAAAAAGCGTTCATATCGACTGCCTGATGCACCTCCGGCTGA
TTGAGCGTGAAGCCGCAATTTCTTTGACGGAATGCACCAAGTCCGCATAAAAATCCAAA
ACGACGGGTTTTGTGCGGATGTTCTTTCAACGCGTATCCATCGCTGCCTTCAGCGCGGCA
GTATCGGCAACATTTTCCGTGTTCGGAAGATTGCTGCTTCGGCTGGTGGATTGAGG
GTCAGGAAATGGTGCAGCGCGGTGTTTTGCGGTTTGCGCCCTGCCAGCGCAACACGCG
CCGCTATCAGCAATATACCGCCCAATGCGAATGCCAAGCTTTTCGACGGCGTTTTCTGC
CTGCGTCCGTTGACCAGCAGCATAAAGGCAGGAACAGCATCAGCAGCGTGTACAGCGCG
ACGACGAGATAATAGGGCAAGTGCAGCGTGGCGAGGTAAACGGCGACGGCTAGCAGGATG
AAGCCGAATGCGTATTTGACGGCATTATCCAATCGCCTGCCTTAGGCAGGATATGCCCG
CCGAACGTGCCGATGCAATCAGCGGAACGCCGTTGCCAACGCCAAAGTGAAGTGC
AAACCGCCTAAAACCGCATCGCCGCTCTGACCGATGTAGCCCAAAGCAAATGCCAGCGGC
GGGGCGACGACGGCCGACAAATCAGCGCGGACAAATATGCCATAATAAGACGGAACG
ATTTTACCGCTGAAAGCTGTCTGCTTTGATTCTGAAAAATACGACTGCACGGCGTTGGGA
AGCTGGATGTTGAACAGCCGAACATAGACAGTGCAGAGCAGCATTAAGCCGATGCC
GCCAATACCAACCAAGCTGTGCAACCATACGGTCAGCAGTGCGCCCGTCACTCCGGCA
ACAATGCCAGCAGCGTATAAGTCAGAGCAAACCTGAACATAAACGACGGACAGCACA
AACGCCCGCGCTTCTCCGCTTTTTTGTGCGCGACCAATACTGGAAACAAATCGGCAAC
AGGGGATACATACAGGCGGTAAACTCAGGCCAAACAGCGAGAAAAACGCCAAAGA
TTGGCGTTGAGCGTATCCAAAGACAGCTTGAACGGCTGTGCGCGCCCTCATCCCCCTTC
GGGGGCGGACGCCCGCTGCGTTTTTGAAGGAAGGCTGCAAAAAGCGGTCTTTGGCG
GATGCCGGTTCTGCGTTTGGCGATGGTAAGTGCCTTGCAGAAAATATCAAACCTCGGTA
TCCACGGGCGGATAGCACAGCGCGCTTCGGCACAGCCCTGATAGGTCAAACCAATTTA
TACGGTTGCGCGCAGCGCTTTGCATAAGGAAAGCAACCTGCGCCTCGTGATGGTAAAC
GTCTGCCTGCCGAAAAACTCGTCTTCTTCTTCTCGCCCTTGTGAAAGAAGGCTGTCCC
AACAAATCCGCCGATCGGTCTTGCCGACGATTTTCGCCGTGATACATATAGTATCCGTG
GCAATCCTGAAACGGAGCTTACACCGTCTGTCGGCAACGGCAAGCTCCGGCACGAATGCC
TTTTTCGGCGGACAGCTTCTGCGCATCCAGCGCAAGGCTCGTCCGCAACATCAAA
AATACGGCAACAGGCAATCAGTTTTTTTATGAATCGAATCCGTTTCAGACAAATAATTT
GTCTGCATTATAAATGGTAAGGTTGACGGTGGGATTTAATTTATGTAAACCCGCCATTA
TCCGAACCTATTTCCATAAACATCTTATCGAACCGCCATGTACGATGTCAATACCCACG

Appendix A

-350-

ATGTCGCCCGCTTTTTCGCCCCGCTGTGGCAGCAGCGGCTCAATCCGCTGCAACTGAGCG
CACTGGAACAGAAAGCCCTCCGCATTTGTCGAAGCCCATCCCGAATACCACCGTTATCTCG
AACGCATCGAAGACCATTGGACACCGACTGGCTGCCGAAAACGGCGAAAGCAACCCCT
TCCTGCATATGTCGCTGCATCTGTCCGTCCTCAAGAACAGGCGGGCATAGACCAGCCGACG
GCATACGCGCAATCCACGACACCCCTGTGCGCCAAACGCGGCTGGCTGGAAGCCGAACAG
AAATGATGGAGGCACTGGCGGAAACACTGTGGACGGCGCAACGCTACGGCACCGGTTTGG
ATGTCATTTTACATGACCCGACTGCGCAAACTCATCGGCTTGGGTGCAGAAGATCAAG
CCAGATTGAACCCGCATGAAATCGCCTGACCATAACACCGCCTGCAAAATGCCGTCTGA
AGCGGAACAACCCCTTTCAGACGGCATTCATTTCCCCCAATCATTTCCACAACGCCCTTT
TTCAGCATAATCAACCAATCCTTCTTATCCAAAACGGGGCGTTGTGCAAAACATCGTAT
CGGCACGCGTCCAGTTTCTGCAAAATCAACTGCGCCCCAACACAATCATACGGAGTTCC
AAACCGATACGCCCATTCAGTTCCCTTGGCAAAGCGAACC CGCTTCAGCATACGGAAC
GCACGCCGACACTCATACGCCATCAGCCGCTGAAACGCCGCATCCGCCCGTCTGCCGCG
ATCTGTTCCCTCAGAAACACCGAATTTCAACAAATCGTCTCGGGAATATAAACCCCTGCCT
TTTTGCCAATCCACAGCCACATCTGCCAAAATTCACAGTTGCAAGCCGTACAGATG
CCGTGCGTTTGGCCACGCACACCGCATCCGTTTCCCGTACAAAGCCAGCATAATGCGT
CCGACAGGGTTGGCGAAGCCGACCAATAATCGGCCAGCTCGCCGAAATTTCCATACCTT
GTTTTAACACATCCTGAGAAAATGCAGAAAGCAAAATCATAAAACGGCTGCAAAATCCAAA
CCGAACGGCACACCGCCTCGGCATCCAATCGTGCAATCAAAGGATGCGCCGACCGGCCG
CCCGATGCCAACACGTCCAACCTGCGCTGCAAAACCCCTCAACCCGCCAACCTGGCTTCA
GACGGCATACTGCCCTCGTCCGCCATATCGTCCGCCGTCCGTGCAAAACGGCTACACCGCG
TGAACCGGCTTCCCTCAACCTGCGCGGCAAAATCAGCGAACCAGCGGAAATTTCTCATAA
TGCCCAACCGACATACCTTCTCCATCCATCAAACAAAATGCCGTCTGAAACGGAACAAAC
CCTTTTCAGACGGCATCAGCATACCTCCAAGCTGCCGGCAATCAGTGGTGGTGATGACCGT
GCGGGCGGTGGACATGACCGTGTGCGATTTCCTCATCGGATGCATCGCGCACGCTTCAA
CTGTAGCCTTAAAGCGGATTTTCATGCGCTGCCAAAGGATGGTTGCCGTCCACCACCGCT
TGCCGTGGCAACATCGGTTACACGATAGACGACAACATCGCCGGTTTCAGGATCGTCGG
CTTCAAACATCATGCGGACTTCGACTTCAACAGGGAACACGCCCGCATCTTCGATACGGA
CCAACCTCGGATCCTGCTCGCCGAACGCATCGTCCGGCGACAGCGCCACATCGACCGTAT
CGCCGGCATCCTTACCGTGCAACGCCCTCTTCCACCAAAGGAAATGCCGTCTGTAACCGC
CGTGACATAGACCAATCGGTTCTTCGGTTTGTGTCAAAAGCTGATTGTTGGCATCATACA
TCTCATAATGCAGCGAAACCACCGAATTTTTCACGATAGCCATATTGTCTTTTCAGGAA
CAGCAGATTAATTCAGCGCATTTCTAACACAACCGCCGCGCCGGCGGATTACCGTTAAC
CTGTTCTAAACCTGTACAGCACATATTTCAATGTAATCTTTGTTATTTTATTGCGGTGT
AACTTTTTTACAACATTCTTAAACCATTCGACCTGTCTGCCGACTTTCCCAATCCGCC
TTAATAAATCATACAAGATACTGAAATTATATTAATCTCTATAATATTTATCCCTATCGA
ATTTTTAACAGCAAAACCGTTTACAGGATTTATCAATCCGCCCGCCAGAAAATTTTCA
TTCAAACCTTTTCCCATCTGTACGACATGCAATCCCTTATTTCCATAGTGACATAATTAC
GCAAATTCAGCGATGAATTTCAAACCCGGTTGTAGTATGGTCGATAAAGACCTATTGT
TTCAATAATTTAAATGGTTCTAAAGGTTACTAAAATGAAAAATCCCTGTTTGGCGCTG
CTTTGTTGTCTTTGGTTCTGGCAGCCTGCGCGGTGAAAAGCCGCTGAAGCTCCCGCTG
CTGAAGCACCTGCCGCCGAAGCTCCCGCTACTGAAGCACCTGCCGCCGAAGCTCCCGCTG
CTGAAGCACCTGCCGCCGAAGCTCCTGCTGCTGAAGCTGCCGCTACCGAAGCACCTGCCG
CTGAAGCTGCCGCTACCGAAGCACCTGCCGCTGAAGCTGCCGCTACCGAAGCACCTGCCG
CTGAAGCTCCTGCTGCCGAAGCTGCAAAATAAGCATTTTCCGCTTGCAAAAAGCAGGAT
ACGTTTCAGTATCCTGCTTTTTTGTATTTTTCAGACGGCATCAGATTCCCTTCTCAATCTT
CTCCCTACCTTCCGACAAACATGCTTGACCTTCATACCGAATTTTCCCGACTCCTACCG
CGAGATGAAATTCGCGAACCTTCTCCGACGCTTTTAAAGACCGACGCAACCGCTTTACG
TCTGCACCAGACATCATTTTGCAGCCGCTCAGCGTTAAAAGCGTGCAAAACCATATGCGT
TTCTGCCACCAACCGGATTTCCGGTTACGCCGAAGCGGCAATACTGGTTTGTGCGGC
GGCGCATTCGGAACACGGCGATTGCTGAACCTTTCAAACCTCAACCGCATCCGACG
ATCAATTTGTACAGAACTGCATAACCGTGAAGCAGGTTCCGTACTCAAACCGTCCAA
CAGGCAGCCGAAGCCTCAAACAGGCTGTTCCCACTCAGTCTCGCCAGCGAAGGCTCGTGC
CAAATCGGCGGCAACATCGCCTGCAATGCCGGAGGTTTGAACGTATTGCGTTACGGCAG
ATGCGCGACCTTGTTATCGGTTTGAAGTCTGCTCCCTCCCAACGGCGAAGCTGTTTCCAT
CTCCATCCCTGCATAAAACACACCGGCTACGACCTGCGCCATCTGTTTATCGGTAGC
GAAGGTACATTGGGCATTATCACTGCCGCCACGCTCAAGCTGTTTGCCAAACCCCTTAGAC
AAAGCAACCGCATGGGTGCGCATACCCGACATCGAATCCGCGCTCCGCTGCTGACCGAA
ACCCAAGCACACTTTGCCGAACGCCATGCAAGTTTGTAGCTGATCGGCCGTTTGGCGCC
GAATTGCTTCCGAATTCAGCAAACTCCCTGCGACACATTCAGAATGGCATATTTTA
CTTGAGTTGACCGACTATACCCGACAGCAATCTTGATGATCGGCTTGTGCAATTTCTT
TATAAAAAGGCTTTACCGACAGCGTGTGGCGCAAAGCGAACAAGAACGTATCCATATG
TGGGCGTTGCGCGAAACATCTCCGCATCGCAACGCAAACTGGGCAACAGCATCAAACAC
GATATTGCCGTTCTATCGGGCGGTTGCCGACTTTGTCCGCCGTTGCCCAAAGATTG
GAACAGAAATTCAGAGGATACAAATCGTCTGCTTCGGACATCTGGGCGACGGCAGCCTG
CACTACAATACTTCTGCCCCGAAATCCTCAGCAATGAAGTCTATCGTTACGAAAACGAC
ATCAACAGCACAGTCTATCGCAACGTCCTTGCTGCAACGGCACGATTGCCGCCGAACAC
GGCATAGGTATCATCAAAAACAGTGGCTGGACAAGTACGACGCTGCCGAAATCGCC
CTGATGAAAAGCATCAAAACACACCTTGATCCATATAACATTATGAATCCGGGCAAACTG
CTTCCGTAAACGGCATTTCTGATTGCATACACAACAAAGAAAGGACAAATAGATCCGAT
TGTGCGTTTAGCGCGAGCTCGTGAGTGCGGTTAAAAATGGTGAAATTACACGAAAAAT
GACCGCACTTTTAAAAATAAAAAATCGGCAGTGAATTTCCCTGCCGATTTTATTTTGTTA
CAACTTAACTTAAACGCTCCACTGTAATTAACGCACCTGTTTGTAGCTTGATGATGTTT
GCCTGTTTGGCGGTTGAATGTGGCTTGAAGGTTAAGTGAGATTTGATTTTCACTGCTAC
ACCTAATTGGCTCTCAATTGCCGCTTATTGTTTATCACTCGACGCTCTCCGCTCCATTTT

Appendix A

-351-

CACACCGAAAGGTTTGTGTGGTAAAGCGGTTACAGCGGCGAAAGGTTCAATAGCGAT
ATTTTTATAGAGTGAAAAATTGAGCTTTAGCTTGAACGCCAACCCGAGTTTGTAAATGGCG
GGAGCCAAAGTAAATTACAGTGGGCATTTTCGCTATCGCTGAATTTTCCGTTTACCCCAA
ATAAGTCAATTGTGCTGTGGTTGTAGGTAAACACGAAGGCTGTTGCCCTTTTGTAGTAA
GTGTTCCGCCAATAACGCATTGTAACTGCTTCAATTGAGGCAGTAATACCTTTTGAAGT
AAAACGTTCTGTACCATCTTCAGTGTGTACGGTGGCGGAAGCGTTGATATTGCATCCA
GCTATCCGCATACGCACCTGTCTGTTTGTCTGAAGTTGGTGCCAAGTGGCGTAAACGCC
TGCACCAAAGCCTTTCACATTTCCCGTTGTAAGATTGTCTGTATCTGGGTTGTGGAAAGT
GCTACGTTGTTCTGCTTGTCCGCCCATTAAGCCAATAGAAAGTTGATTACTTTTCGTTTTG
CCATGTGAATACATTGCGCCCGGAGTTGCACACCTTTACGATAGCCTTCTACAGGTGCTGT
TTTGCCCTTGCACCCATTGGTTGGAATGTCGGTCAATCACACGCAACCACAAGCCTTTGCG
TGGTAAAGTGGCGTCGAAAATATCGCTGTTTTGTTGTTCAAACGCAAGGCGAATAAGGT
ATTGGCGGCTTGAGCCTGTGTGCATAAATCGCCATATCATCGCGTCTTGCACCTTTGGT
AAAAAAGCCCTCTGGGCGCTGTTGTAAAGAAAGCGTATAAATCCCTTTTGGTGTGGCC
AGAAAGACGGAATGCGTGTATCTGCTGTGCCATTACTTTGATAATTTGATGCCCATC
GAGGCTTTTTAAATCGTCTATTGGATTTTTCGAAGATGATGTCGGAAGTGCCAGTAACATT
TTTCTCAAAAATTAAATGAGTATTTTTCGCTTCTTAGGATCGTAAGCAAACGAAAACG
AGCTCCGCCAGCATAATCTCTTTTACGAGTAACTTTTCACTTTTAGTATTAAACGGAT
GTCTGCAATTCGTTGTTTTTAAATTTCCCAACATTAGAATCCCAACGGGGCTCCAGAGAGA
ATTTCTAAGCGGAATTCCTCAAACTAATCGTTTGGCCGATAACGTGCGAGTTGTCTGT
AACCTCAATATAGTGAATGGATCTAAACCAGAATATAGATGTGCTGCAAAAGAAACATA
ATTTTCAATATGATGAATTACTTGATTAGCCCATCTGTATAATTTCCGACAGATAAAAT
TTCGCTGTGATATGACTATTTTTTATTTTTGGACCTAAGGAGAATATATGACTTTTTAC
TATAAGAGGATGGGATCCAAATTTTTCAGCTTGGCAAGTACTATAATCACGTATCTTAGT
GTTAGAATTAACACATTCTCTTAAATATTTCGCTATTGTTCTTCTGTGTCCCATTTCT
TTTTGCAACCCCTAAACCTCGGGCGAAGCCAACCTAGGTAACCTTCGGTATATTTCTTGATC
ATAAAAGAAATCTTTTTTGAGTTATTGATGTTTTCGAATTGGTATGTTCTAGGGTATAG
TGCGGGAAGGGTGGAACCTTTGGATTATCCTCGGTTATAAGATAAGTTTCTTTTTCCA
ATATTCACCTCGTTTTATCCGCGGAGTTTTTTAAGCGGGTAATTCATCATTAGTGAGCTT
GGTTTTGTGCTAAACGTAATCAACAGCCAAAAGCGGAGAGGTATAAAGAATAGAAAAAA
TAGACTTACAATAAATGATTTTTTAACTTCTGCTTGTCTGCTTGTCTGCTTCGAGTTTC
ATAATAAATTTTCTTTGTCAAGTAAAAATAAATGGGGCGTGGATTTAGCATAAACTG
AACAAAAATGTCAATTATCTCACATTTTCTCTATTTATTTCTTGTATTATAAAGTAA
ACGTTTTGTTTTGCTATTTTGTGTTTGAAGCCAGTTTGAATGTGATAAATGCGCTCGTTA
TTTACAAAAATTTCAAGAAAAATGACCGCACTTTACCCTTGGCTAATGCCAATTTATCAT
CAAAATGCTCAACCTTTGACGAAAGCTTGGGGCATCATGCCGTGCTGATTAAAGCGGAT
GCTGGTTTAGGTAGAGAGCTTTACACATCAGGCGCGAGCCTTGCCCATACCGTCTGAAG
CACTGTTTTCCACAATCAGCGCGTATGCTTAATCAACCGCTGTTTCTCGCGTTTCAATCC
GCCTCTTTCATCTCTGCGGTTTTGTCGTGCTGTTTCTTACCTTTTGCCAAACCGATTCC
ATCTTGATTTTTCCGCGTGAAAAATGCAATCCAGCGGCACGATGGTGTAGCCGGCACGT
TCGGTTTTGCGGATTAATTTGTTGATTTCGACTGGTTCAACAAGAGCTTGCGCGGACGT
ACGGCATCTGGTTAATGTGTGTGCGAGGCTGTGGGCAAAGCCGTAATATGGCAGCCGACC
AGATAAACCGCGCTTTTTTCCAATAGATATAACTCTCTTAAGCTGTACGCGCGCGGCG
CGGATTGCTTTGACTTCCAGCCTTCCAAGACCAAACCGGCTCAATCCGGTCTTCAATG
AAAAAATCGTGAAATGCTTTTTTATTTGTTGCGCAATAGCCATAAACATCCTATCAATATCC
GCCGTGAGACGGGATAAACCCGAAACAGAACCCATCATACCGCCTCTTCAACCGCCTGC
ACAATCTTCTCGGGATACAGCCTGTTGAGGCAGTCGGTATGCCCCAGCGGACATTCCCGC
TTAAACACGCGGCAATCTTCAAGTGACAGGCTGACGATTTTCCGCTATCGCTCAAAGGC
GGCGTATGCGTGGGCTGGAAGAACCCTAAACCGCCACCACCTTCTTGCCCAAAGCTGCC
GCCAATGTCATCAATCCGCTGTGCTTACACACGACCGTGTCCGCCAACGACAGCAATCC
ATTGCTGCGACAAATCGGTTTTGCGGCACAAATTGACACACATACCGCTGAAAGGCGG
TTGATTTCTCGGCAATTTTCATCATCTTTTTGCGAACCGAACAGCCAAACCTGCCAACCC
GCCGCCAGATAATGTTTGCCCAACTCGGCAAAATGCCTTGTGCGGCAACGCTTTGCCGGC
CCGAATTCGCGACCCGACAAAAGCCAGAACAGGCTTTCCAATATCCAAGCCAAAGGTT
TCGACAGAAATTTCCCGCCCGCTTCAATGGAAGAACTCGGGGAATCCCGAATGCCCG
TCAAAATCTTCTGACTCGGATGCGCGAGAGCGGTATATCGATCCACCATCAAAGGCAGA
CGTTCCCTTATCCAGCCTGCGTATATCGTTCAACAGAAAAATAACGGCTTTACCCGACATAA
CCCGTCTTTTACCGATACCTGTGCGCAGCGCGATGATTGCCGATTTCAAAGAACCGGGC
AACACGATAACCTGATCGTATCCGCGCCGCCCAATCCCTACCGACCCGCCAACGGCGT
TTCAACTCCAACGCACCATGTCCGAACGAATTTCTCAAGAATTTCAATTCATTCCGGCATA
CGCTCGAACACCGCCATCGCACTTTCGTTGCGAACACATCAATCGTGCAACCGGGGTGA
AGTTCTTCAAACCGCGGAACAAGGGCTGGGTATCACGCAGTCGCTATCCAACCTGGGG
GAAATAATCAGGATTTTGTATGGACATAACAAGAAACCGAAATCAGACAGGCAGAAATTTA
CCGCGAAACCGTTGAAAACCTATCTTGCCGCTATCCGAACGCCGACGTGCAAAATATGA
AAAAGCCGACACTTCAATTTGCGGCTTCAAAATTTGCTGCCGACCTGGGCTGCAAC
CAGGGACCTGCGGATTAACAGTCCGCTGCTTACCGACTGAGCTATCGGGGAATGGGGCG
TATTATAGCGTCCGGAAAAATGTGTCAATCCTTAATTTTGGAAAAATGGGCGACAAAAC
GACAAGCATATGAATCAGAAAGACATTAAGACCGATGCCTTAAAGGATTGCGGTTGTAT
GAATTTCCACAGCCGTATCACACCATATTTAAGCCCGATGAGCCGTTCTGCCCTCCCCC
CGCTTAAACAAATGCCGTCTGAATTCGCGGTGTTCCAAAGCCAGTAAAACTGTTTGGC
GTTCAACCCGCCCGCTAGCCGGTCAGTTTGGCGTCTGCGGATGACGCGGTGGCAGGG
AATCAGGATAGATTCTTGTCTGCGGCTGGCGCGGCAACGGCGCGGACGGCTTTGGG
GTTGCCCAAACGCTGCGCTGCTCCTTGTAGCTGCGCGTTTCGCCGTAAGGAATCGCCAA
GAGCGGTCCTATGCCTGCTTTTGAACCTCGGTGCCAATCTGCTCCAAAGCGGTGGCAAA
GGTTTTACAGACACCTTGAAGTATAAGTCCAATTCCTGCCGCAAAAGTTGCGTCCGCTC

Appendix A

-352-

ATCTCCCGAAACACAAACCGTCCGCGCAAGGCTTTTTGGACGGCGGCAATTTCTGTTC
CAAATGCTTCTGTCCGACAAATTCAGCAAAACACAAACCCCTGCTACCGAACACCGCCAG
CATCTCGCCCAAGGCGTGGCAATGGCGGCACACACAGCTCGTTCAAATGTCGGGATA
ACGCGCTTCCAACAGCAGGATGGCGGGCGGATGCGGACATATTTCTTCAGGCGCGAGCC
GATATTGTCCCAAAATCCCGCTCGAACTGTTGGCTTCGCATTCCGTGAGATTGGGATG
CGGCATAACGCCGCACTCAAAAACCCGAGATTGAGCCAATGGCGGATTTCATCCCATTT
TGACGGCAGATTGTTTAAAGGAAGGCAGGTAATCATTTGTTTGCTCCGTATCCCTATCAT
AGATTTGACGGCAAAATCCCAATTTTGGCATTCCCGCACGCCGAGCAGGAACGGGCT
ATGACGTAATCTTGAGGTTAGGTTGCGGCAATACCTAAATATTCGATATTTCTAAAGC
ATCAGAGAAAGGAATGTTTCAACACACAGGACGACACATAAAGCGCGCCCATGAAAAA
TTTCAGACGACCTGCAAAGGTCGTCTGAAACACGATTTTGCATTTGCGCATTTCTGGC
ACATCATCCAACCGTTTTCGGCACATTCCTGCCGCGTTCAGAGCCTATAATGAATCCACT
TATTCATCAAGCAAAGGAATCATCTATGCAAAACCTCATCTCTCCGCCGTACTGCTGGC
TTTTTCAACCGTGCTTTTCCCGGGGCGCATTACGCTGCAATTCGACAACCCGTCGGA
AGACGGCGGCTTCAGCAAAACAGCTTTTGGAGCGGCTTACGGCTTTTGCTGTTTCAAG
CGACAATGCTTCGCCCGCGCTGTCGTGAAAAATCCGCCCGCGGGACAAAAGTTTCGTC
CTGACCGTTTACGATAAAGACGCGCCGACCGGACTGGGCTGGATGCACGGGTGGTCGCC
GACATTTCCGCCGATGTCCACCGCGCAACGCGACCTCGCTGCAATTAAGCCGCTGCGCC
AACATCGCCGACCGGACTGGGCTGGATGCACTGGTGGTGGCCGACATTCCCGCCGATGT
CCGCCGCCGCAACGCGGCTCGCTGCAATTAAGCCGCTGCGCCAACATCGCCGACGACCA
GTCCCGACGCTATCGCGGTAATCAGTTTGGCGGATTGCGCGCATCAGGTTGACGCTTC
GTACACGGCAAAACCGATGCCGTGATGCTGCAACACGCGCAACACGCCGCAAGCGCGGC
CTCCGACGATTTGTGGGCACTTCTTCAATCCGCCAGTACCGCAGCTCATATCAAAACGC
CGCGCCCATACGCCCGGATACGCGAGCTTACCAGCATCGCACACTGCTGCGCGCTCC
GTATTGTGGCGCAACCTTTCTACGGTTTCTGTTGCAAGCAATCCATTGCGCCTGATA
GAGGCGCTGTGAATCGGGAATATTGATGACGTCAAACGCTGTTCGCCCTGCCAAGCGGAC
CGCCTTACCCGCGCAGCTTCTTACTTCCGCGCGCACGATAAGCACAGCGGTTTATAT
ACCGCCAGCTGCGGTACAAGGCGGTATGATGTTGCACGATGCGCGCTAAAGCACCCAAT
CGTTCCGCGGTATGAAAGTATAGTGGATTAAATTTAAATCAGGACAAGGCGACGAAGCCG
CAGACGTACAAATCGTACGGCAAGGCAAGGCAACGCGCTACTGGTTTAAATTTAATCCA
CTATATCTCAAACCCAGTTAGGTTCTAAGCAATGGTCGACATCCTTATCCGACAGCCC
ATCTTCTTTTTCAGACGGCATTGCAAAATTTAAGTTTGACGTGCGTTCAAATAAGGCACTT
AATGCGAAGCGAAATTCGCTCGGCGTACCTGCAACTTGGCCCTCCCTATAGGGGAGGG
TCGGAGGGAGGGTAAACGGGGCAGATACAGACAATATTTCCGTTGCCGCCCGATGCC
TCTCCCTAACCCCTCTCCACGGGAGAGGGAATGGATTGCCGTTGAAATAAATCGCTCTAC
ATAAAAAATCAATGTGTATCTCAAACCCACATTAGGTTCTAATCAAATGGTCGGATATCC
ATATTCGGCAAGCAAGCTGCTTTTCAGACGGCATTTCAGCCAACAAGCGCGCAATATCC
CCTCATACACCGCAGACAGCTTCGGAATGTCGTTTAGCCGACGTTTTCGTTGATTGGT
GGATGGTCGATTGGACGGGCTAATTCGATAAGTCTTTCGCAATGGCTTTGATGAAGC
GTCGCTCCGAAGTGCCGCGGTGGTGGACAATTCGGCCTCAATGCCGAGGTTTCGGCAA
TGGCTGCGCGTGCCACGTGCGTCAGTTTGCCTGCTGGGTGAGAAAGGGCTGCCCGAAC
ACGACCACTGCAAAATCGTATTGCACGCGTGTGTTGTCCAAATGGCGTGGACGCGTGT
TCAGCCTGCTTCGGTGGACTCGGTGGAGAAGCGGAAATGAATTTGACGTTACGCTCGC
CCGGAATGACGTTGGTCGCGCTGTGCCGCGTGTGATTTGAAATTTGAAAGCTGGTTG
GCGGGAATATTCGTTGCTTCTATCCAGACTTCTGCGTCAGCTTCAACAAGCGCGGG
CAAAGTATGACGGGATTGATTGCCAAATGCGGATAGGCAATATGGCCTTGCTTGCTT
TGACGGTCAGGTTGCCGACAGCGAGCGCGCGGACCGTTTAAATCATATCGCCCAAT
TGTCCACGGCGTCGCTTCGCGACGATGCAAGTGTGATAAGCTCGTCGCGGCTTTCA
ATACATCGACGACTTTGGTCGTGCGCTCCACGCGTGCCTCTTCGTCGGAAGTAATCA
GAAGCGCAATGCTGCTTGGTGGTGGGATGTTTGGCAACGAAGCGTTTCGAGGCGGTAA
CGAAACAGGCAATGCTGTTTTCATGTCTGCCGCGCGCGGCTATAATCTTCGTCGC
GCTCGCGCGGTTGCAACGGGGCGAATCCATTTTTCGACAGGACCTGTGGTACACGCT
CGGTATGCCCTGCAAAACAGACGAGCGGGAGCTTTCGTGCCGCGTGCACACGATGTTT
TGGTGTGCGCGAAATGGAGTTCTTCAGCCGCAAAACCGATTTTGTGACGGCGTTTCGGCAA
GGAGTTTGTGCAATCCCTGCTCGTCAGGGTAACGGATGGTCGGGAATCAGCTCTTGG
CAAGCTCTAGGGATTGAGTTTCGGTCATATTTGTTCACTTTTGAATTAGACCGCTGAA
ACGTTCTGAATGTGATTTTCAGACGGCATTTAGGTTAGGTTGGCATACGGGTGGGTATT
TTACCAATCAGTCTTCTGAATCATTTGCCGTGGCAGGCTTCGTAAGCGGCGAGCAATCT
TCCACCGTTTCCGCTATCCATTTTCGCGACATCCTGCCTGCCCAATCGTCGCGTTCGATG
TGTTTGGCGATGCAGAAAAGTCTTCGTCGTTTTCGCACTTTTCGGTCGGACTCGTTTGT
TGCGCGACGGTGGGTAGTCGTCGTTTCGCTTTCCGACCGTGCCACATATCGAAAGAA
GCGTATTTTTCGTTATCAAAATTCAGACCGGTTGTAATCAGGCGAGCGGATGGG
GAAACATCGGCTTTATAGCAGTGCCAATCCAAGCTGACGCTCAGACGGCGCGGTTGAGC
AGTATCGACAAAATCGTGCAGAAATTTTATATTGTTGATTTGAAGTAGGCAAGAAAA
TGGCGCGAAGCTGCAACGCTTACACGCGGTTGATGTGCGGCGCGCAACGCGGCA
CCCAATTCGGCGGCAACCTGCTGAATCAGCTGCTGCCATATCTGCCAGTTTCTTTATAG
TCAGCCTGATTTCGGGAATGCTTCAGGCTGGTATTTTAAAGCTGGGAAAATTTGAAAA
AACGGGATATTGAACAAATTCGAACTTTTCGGGGTCAGCATAATATATCCTTGAGACGAT
TGTTTCAGACGGCATTTTTCGCGCGCGCGCGCCATAATTTTCGCCGATTTCGGTCACT
TTTTCTTTTGGGATAAAGTGTTGCCCATATCAAACAGCGGCTCTTCAATCGCCAAATGA
ACATCATATCCCGCCACAAAACGTTTGAACGCTTCTCATCGGGGACATAAGCGTTGTCT
GCTTCGAGTTTGGCAAAATTCGGCGGAAACAGCGCGGAGTTGTCGTCGAGCGCGATGAT
TGGCGCAAAAGCTCGTCCACGCTTCTTGGGCTTGGCGCGCATATTGCAGCAGCAGCGG
AAGAAGTTTCTTCTTCGCTTTCATGGTGCAGCGCGCGGCAACGTTGAATACTGGGCG
ATTTGGCGGATGGTTTGCAAAACAATCTGATTGCAGCGGTTTTCGGCGATATAGTCCGAC

Appendix A

-353-

AGCATGGCGACTTGTCCGCAAAAACGGCGCACTTTGCCGTGGCAGGCATACAGCATTTCA
ATCGGTTTCGGCAAGGTACGCTTTTGGTTTCAAACGGATTTCATGTTTTCTCTCAACG
GGCACTTTTCAAGCAGTCATTTTATAATAAAACAGCCTGCACAAAGCAGGCTGTCCGTCT
TTTGAGACTTTAAGCGGATTAATCGACCAAAGTCACTTTGCCGTTTCATCAAAGCACCGTG
ACCTGGGAAGGTACAAGCGAATTTATATTGCGCGTCGGCCAATTTAGCAGGATCCAGAGT
CAGGGAGCTTTCTCGCCGCCCGCATCAGTTTGGTATGGGCAACAACGCGTGCATCATC
AGGTTTGACATAGTCGGTATCGGCAGCACCTACGCCGTCTTAAATACGCCGTCCATGTC
TTCAGCTTTGGCAATCACGAGATTGTGACCCATGCTGGCTTTGGGTTGCGTACCGGTATG
TTTCAGAGTGATGGTGAACCTCTTACATGCTTTGCTGACTTGGATGCTTTTGGTGTGAA
CTGCATATTGTCGTTGGATTTCGACAGTTGCCGCACAGTTGCCGGCAGCAGGGGCTTCGGC
AGCATCTGCAGGAGCAGCTTCGGCGGCAGGCGCTTCGGAAGCGGGTGCTTCAGCAGCAGG
AGTTGCCCTCGGCAGCAGGCGCGGAGGTTCTTGAGAGCAGGCAGCCAAACCGATAACGGC
GGCAGAAATCAGAGCCAGATACGCTTTTATAACAAATCTCCAATCGATAAAATAATATTC
GGTTTTACAGAAATCAAAGTGCACACCGCCATTAAACAAAACCTTGAAAAGATTCCGCGC
GTTGCACAAACAGATGTTTCGGAGCGGCATTTTGTACAAATTTTCAATTTGAAATCAAAGC
CTGTTTCAAGTTTACAATCGTTTACCCAAAAAGGGCAATTTTACCCGAACCTATTTTC
TTTAGTATTAGCTATTTACTTCTTAATATTAACGGATGTTTACACAAATTC
CGTATACATTTTATGCGCCATGCTTCTAACCAAGTTTGCCAATGCCTCCGCCAATTCGG
GATGCCGTTTTTCCAACCTTTGCCGCCGCCGAACCGAACTCTCCAGCGCAGCCTTACTCA
AATGCAGGGTATTGGTTTTTCGGCGGTTTTTCCGGTTTCGGGACCAGCCTGACCGAAACAG
AGCGTATCGAAGCATCAAGCTTCCCACTGCCCACTGCCGCAATACCGACGGTGCAATCATTTTCA
AGCGCGATGCCGCCATATTGTTTCCGCCCAAAGGACAAGCCTGCCGTCTTCGATACATG
CCGCTCGAAATTCGGGTGTCAGGTTGGCAGGCAGCAGTTTTCACGGCGGCATCCAAAC
GCCGCCACTGTCCGCCCTGTTTCAAAGTCCGGAAGCAGCGCTCCCGCTGCCCACT
GTTCCAAATTCATAAAACATACACCCAAAAAGATTGAAATACCGCAACCGCGCTTTATT
TCAGACGGCATTAGCACTTTGCACAAACGCTTGTGTTAAATCGCGTTTTTCGCCCACTAT
TATATCAGGCGCAGGAATTATTCATGCTGACAAACATTGCCAAGAAAATCTTCGGCAGCC
GCAACGACCGCTTGTCTGAAACAATACCGTAAATCCGTTGCCAGAAATCAACGCGCTCGAAG
AACAGATGCAAGCCCTAAGCGATGCTGATCTGCAAGCCAAACTGCCGAATTCAAACAC
GCCTCGCCGACGGTCAGACTTTGGACGGCATTTTGCCCGAAGCCTTCGCGCTCTGCCGCG
AAGCGTCCCGCGCACCTTCGGTATGCGCACTTCGACGTGCAGCTTATCGCGGGTATGG
TGCTGCACGACGGCAAAATCGCCGAAATGCGTACCGGCGAAGGCAAAACCTTGGTCGCCA
CCCTCGCCGTCTATCTCAACGCGCTGGCCGGCAAAGGCGTACACGCTGTTACCGTCAACG
ACTACCTCGCTCACGCGATTCGGGCATTATGGAGCCGCTTACAATTTCTCTCGGCTTA
CCGTGGCGGTGATTATTTTCAGATATGACGCGTTTCGACCGTCAAACGCTATGCCGCG
ATATCACTACGGCACCAATAATGAATTCGGCTTCGACTACCTGCGCGACAATATGGTTA
CCGACCAATACGACAAAGTGCAGCGCAATTGAATTTTCCGCTTGTGATGAAGTGGATT
CCATCTTGATTGACGAAGCGCGCACTCCGCTGATTATCTCGGTGAGCGGATGACAACA
TCCAGTTGTACCAATCATGAACACCGTTCCGCCCCACCTCGTCCGTCAAGAGACAGAAG
AAGGCGAAGGCGACTATTGGGTGACGAAAGGCACATCAGGTCACTCTGAGCGAAGCAG
GTCACGAACACGCGGAGCAATCTGACCCAAATGGGATTGCTGGCAGAAACGACTCCC
TCTATTCCGCCGCAATATCGCCCTGATGCACCACTTATGGCGGCATTGCGCGCGCATT
CCCTCTTCCACAAAGACCAACATTACGTCATCCAAGACGCGGAAATCGTCACTCGTGACG
AATTACCGGCGCGCTGATGTCCGGCCGCGCTGGTCGGAGGGTCTGCATCAAGCCGTCG
AAGCCAAAGAACGCGTGGAATCAAACGCGAAACCAAACGCTTGCAATCTATTACCTTCC
AAAATATTTCGCGCTGTACACCAAGCTCTCCGGCATGACCGGCACAGCCGATACCGAAG
CCTTCGAGTTTCAAAGCATCTACAACTCGAAACCGTCATCTCCGACCAACCGCCCCG
TACAGCGCAAAGACTTCAACGACAGATTTCGGTTCCGCGCAAGAAAAATTCGAAGCCG
TCGTTAAAGACATTGAGGAATGCCACAAACGCGGCGAGCCGCTCTCTCGGCACCACCA
GCATTGAAAACCTCGAAGCTGGTATCCAAGCTGCTGACCCAGCCGACTGCCGCACAACG
TCCTCAACGCCAAAGAACGCAACGCGAAGCCCTGATTGTCCGCCAAGCCGGCAAAGTCG
GCGGATTACCGTTGCCCAATATGGCGGGACGCGGTACGGACATCGTTTTAGGCGGCA
ACCTGAAGCACCAACCGATGCCATCCGCGCCGACGAAACCTTGAGCGACGAAGAGAAAC
AGGCACAAATCGCCGACTCGAAGACGGCTGGCAGGCGGAACACGACAAAGTGATGGAAG
CAGGCGGTTTGACATCATCTCGGTACGGAACGCCACGAAAGCCGCGCATCGACAACCAAT
TGCGCGGACGTTCCGGCCGTCAGGGCGACCCGGATCCAGCCGCTTCTATCTCTCTTTG
AAGACCCATTGCTGCGCTTATTCGCACTCGACCGCGCGCGCCATCTCAACCGCTTCG
CCCCGAACGCGCGCTGCCATCGAACACAACCTGCTGACGCGCCAAATCGAAGGGGCGC
AACGCAAGTTCGAAGGCGAGAACTTCGATATGCGCAACAGGTTTTTGAATACGACGACG
TTGCCAACGAACAGCGCAAAGTCAATTTACAGCCAGCGCAACGAAATTCGACCGACAAAG
ACATCAGCGACCTGATGCAGGAAATCCGTTCTGATGTGCTCAGCGACCTCGTGGATACCT
ATATGCCGCCCGACAGCATGGAAGAACAATGGGACATCCGACTTTGGAGAACCGCTGG
CTGCCGAATTCAGACTGCACGAAGACATCCAATCTGGCTGAAGGCGGACAATGCGATTG
ACGGTCAAGACATCAAAGAACGCTGATCGAACGCATCGAAACGAATATGCCGCCAAAA
CCGAACGTGTCGGCAAGCAGGCAATGGCCGATTTCGAGCGCAACGTGATGTTGCAGGTCA
TCGACAACCAATGGCGCGAACACCTCGCCGCTATGGACTACCTGCGACAAGGCATACACC
TGCGCAGCTATGCCCAAAAAAATCCGAAGCAGGAATACAACGTGAAGCCTTACCATGT
TCCAAGACCTGTGGAACGGCATCAAATTCATATTCCTCCCTGCTTACCTCGGTTCAA
TCGAACAAAACCTGTCCGCGTGGTTGAAGAGCAACCCATCGGCAACATCCAGTCCATCC
ATTCCGAATCGCCGATATGGAAGAACTTTTGGGTGAGTCGAAACCGATCTGGTTACCG
AAGCCTTAAATCCCGATGGGACAGATTTCAGCCCGAAGCCTTGGAAGCGCGGGGGCAAA
TCGTCACCGCAACGACCTGCCCTGCCCTGCGCGAGCGGTTTGAATACAAACAATGCCACG
GCAAACCTGGCTTAAGCGTTTGAACGCAATGCCGTCTGAACATCCCGCTCCCGTTTCAGA
CGGCATTTTGCTGAACCGCCACATCCGACTGCCATTCCGAAAAATCCCGATTTTCGTACC
GTCCGTACCAAAAAACAGACATCCCGTCCGCCACATCATGATTCCATCCGACTTCATTG

Appendix A

-354-

ACGAGCTTTTAGCCAAAACCGATATTGTCGATATTATCGACGAGCAGGTTCCGCTGAAAA
AAGGCGGGGCGAACTATATGGCGTGTGGCCGTTCCACAAGGAAAAACGCCGTCGTTTT
CGGTCACTCCAACCAAGCAGTTTACCATTGTTTTCAGTTGCGGGGCACACGGCTCAGCGA
TTGGTTTTGTGATGGAAACATCAGGACTGTCGTTTCCGGAGGCGGTTCAAGTTCTTCCCG
ACCGCGTGGGTATGGTCTGCGGAAAGTGCACGGGCAAAACGATAATCCCGAAGTCCGTG
CCGAACGTAAGAAAAACAGCAGACACTGGAGGAACACGCGCTGCGGCAGCTGATTTTT
ACGCGCAACAGCTAAAAATCAATCCAGCGGCAAAAGCTTATTTGGACAAGCGCGGCTGA
GTGCAGAAAGTTATCGCGCATTATGGTTTGGGCTATGCGCCGACGCGTGGCAGCCTTTGA
CGCAAGTGTTCACACCGTATCCTAATACCGCGTTAGTGGATACGGGGATGGTGATTGACA
ATGAGGGACGGCATTACGACCGCTTCCGCCATCGGATTATGTTCCTCATCCGAATCCGC
GCGGGCAGGTTATCGGTTTCCGGCGCAGGGTGTGGACGACTCGAAGCCGAAATATTTAA
ATTCTCCCGATACGCCTTGTTCGATAAGGGGAAAAACCTTTACGACTGTATGAAGGGC
GTGCCGTGTCAAGGAAGCGGGCGGATTTGGTGGTCAAGGCTATATGGACGTGGTCG
CGCTGGCAGACTTCCGGCTGGGCTACGGCTGGCGGCTTTGGGTACGGCGACGACGGCG
AACACGTCAAAATCCTGATGCGTCAGGCAGACAGTATTTATTTCTGTTTCGACGGCGACA
GCGCGGGGCGAAAGCGGCTTGGCGCGCGCTGGAACCGCGCTGCCGCAAGTGAAGGACG
ACAAATCGCTGCATTTTTTGTTCCTGCCGGAAGAACACGACCCGACAGCTACATCCGCG
CCTACGGCAAGCGCAATTTGAAGACGCGCTTCTGAATCAAAGCAAGCCTTTGTGCGAGT
ATTTCTGGGAACACCTTTTCAGACGGCATTCTCAATACGAGGAAGGCAAGGCGGAAT
TGGTAAAAACAGTTTCGCCGCTTTTGGCGCAGATTACCGCGCCGGCATTGGCTTATTTGT
TAAACACACGGCTTAGCGAGCTGGTCGGCATCGACCCGACAACCTCGCGCAACTGCTAG
GACAGGAAGCGCGAAGCGGCACGTCAAACAAAAAAATACTACAACTGCCTCCGATTTCGG
TCAAACAGCCGTCATGCTGACGCTGGTACAGCGGCAAAATCCGACGCTTGTGATAAATC
CGATTGGGCTGCATATATAGACCTGCCGATTATCTGGCGTTGGACGGTGATTTCGCCCT
GCCTTGCCAATCTTGCCGAATCGATTAAAAACCATGCCGCGTACCCGAAACCGCTCAGG
TTTTAGAGTATATGCGCGGCTCGCCTTACGAAGAACGATAACCCGAATCTTCCATTCAA
CGCACCAATCGGAAGAAATGAACAGCAGCAGTGAAGAAGATTGCGAGAATTTCCAAATCG
GCATGAAAAAATGCTCAATGAGTTAAAAATACAGCCAAATCGAAACATTAAAACAAAAA
GCCTGCAATCCGGCTTAAATGAAAGCGAGAAAAAATTTTGTGTGCTGCTGACCGCAA
AACAAATTTGACCGGGGATTCCGCCATCCGTAAACCGTTATGCCGTCTGAAAAGCATTTC
ACCCGGGCTGCAACACACACCTGCAGAACACCCATCCCCAAAAGCCTTCAGACGGCAT
CAGAGTACCCTACTCTGCCACGCTTTCAGGTGCGTCCAAACGCAACCGCTCGGCATCTTA
CCAACAGAAAGCAGCAATGTCCAGAAACCAAAATCACGAAGAATATCAAGACGACACC
GTCGTTAAGCATTGAAGAGCAACGCGCGCGCTGCGTCAGCTCATCATCATGGGTAAAG
AACGCGGCTACATCACCTACTCCGAAATCAACGACGCGCTGCCAGACGATATGTCTGATG
CCGACCAATAGACAATATCGTCAGCATGATTTCCGGTTTGGGCATCCAAGTTACCGAAC
ACGCCCCGATGCGGAAGACATATTGTTAAGCGACAATGCCGCCGTTACCGACGATGATG
CCGTGGAAGAAGCCGAGGCGCCCTTCCAGTGCAGATTCCGAGTTCCGCGAGAACCACCG
ACCCCGTCCGTATGTATATGCGCGAAATGGGACAGGTGACCTGCTGACCGCGGAAGACG
AAATCATCATCGCAAAAAAATTTGAAAACGCCCTGAAAAATATGGTTACGGCCATCTCCG
CCTGCCGGGATCTCGTAAATCTTAGAACTCATCGAAAAAATCCGCAAGACGAA
TCCGCGTTCGACGAAGTCGTAGAAGCCATTATCGACCCGAATGAAGTATTGCTCAACGAAT
TGGGCTTGGGGGACTTGGAAACACAGCGCCCGAGAAACCTTCAACGACAAATTCGGACG
AAAACGAAGACGACGAAGAATCGGAAGAAGATGCGGATGAAATCTCGGCAGCCAATCTCG
CCGAATTGAAACAAAAAGTTCATCGGCCACTTTGCCCAATCGAAAAAGACTACAAAAAA
TGATTGGCCGTTTGGAAAAACACACAGCGCGCACAAAGACTATCTCGCCTACCGCGACG
CGATTGCCAACAACTGCTGGAAGTCCGTTTCCGCCACCCGGCAAAATCGACAGCCTCAGCA
GCAGCCTGCGCGGGGAAAGTGAAGAACATCCGCAAACTCGAACGCGAAATCCGCGACATCT
GCCTCGACCGGCTCCATATGGAACGCGACTACTTTCATCCAAACTTCTGCCCGAAATCA
CCAATCTAGAATGGATTGAAGAAGAAATCGCCAAAGGCAGGGTTTGGAGCGACGCGCTCG
ACCGCTTCCGCCACGCCATCTCGAAAAACAAACCGAGTTGGCGGATATGGAAGAAAGAA
CCCGCATTTCCATTCGAAGAGTTGAAAGAAATCAACAAAAATATGGTGTGCGAGCGAAAAAG
AAACCGCAGCGCCAAACAGGAATGATTAGGCAAACTTGCGCCCTGCTGATTTCATCG
CCAAAAAATATACCAACCGGGGCTTACAATTCCTTGATCTGATTGAGGAAGGCAACATCG
GTTTGATGAAAGCGGTCGATAAGTTCGAATACCGCAGAGGCTATAAATTCCTCCACCTACG
CAACCTGGTGGATCCGCCAGGCAATTACACGCTCGATTGCCGATCAGGCGCGTACCATCC
GCATTCCGGTACATATGATTGAACCATCAACAAGATGAACCGCATCTCGCGCAACACC
TTCAAGAAACCGGCAAGAACCCGATTCCGCCAACTTGCCGAATGATGACAGATGCCCG
AAGACAAAATCCGCAAAATCATGAAATCGCCAAAGAGCCGATTTCGATGGAAACCCCA
TCGGCGACGACGACGATTTCGCACTTGGGCGACTTCATCGAAGATGCCAACAAATGTTGCGC
CGGCCGATGCGGCAATGTACACAGCCTGCACGAAGTAACCAAGAAATCTCGAAAGCC
TGACACCGCTGAGGCAAGTCTGCGTATGCGTTTCCGCGATCGATATGAACACCGAC
ACACGCTGGAAGAGTCCGCGACAGTTCGACGTACGCGCGAACGCATCCGACAAATCG
AGGCAAAAGCACTCCGCAAGCTGCGGCATCCGACAAGAGCGACCGTTTGAGAAGTTCT
TGGACGCGGAAGACAGCAAGCTGTAACCAAAAAACCGCAGGTTTCAAATACCTGCCGTT
TTTTCTTACACAATAAACAACGCTTCCACATATCCACACTCTATCCCGAGACCTTTGC
AAAATTCCTCCAAATCCCTAAATTCACCAAGACATTTAGGGGATTTTCCATGAGCAC
CTTCTTTCAGCAAAACCGCAAGCCATGATTGCCAAACACATCGACCGTTTCCACTATT
GAAGTTGGATCAGGTAATTGATTGGCAACCGATCGAACAGTACCTGAACCGTCAAGAAC
CCGTTACCTTCGAGACACCGCGCGCTCCCGCTATCCCTGCTGCTCATGTTCAAAGC
CGTCTGCTCGGACAATTGGCACAGCCTCTCCGATCCCGAACTCGAACACAGCCTCATCAC
CCGATCGATTTCACCTGTTTGTGCGGTTTACGAACTGAGCATCCCCGATTACAGCAC
CTTATGCCGCTACCGCAACTGGCTGGCGCAAGACGACACCTGTCCGAATGTTGGAAC
GATTAATGCCAACTGACCGAAAAAGGCTTAAAGTAGAGAAAGCATCCGCCCGCTCGT
TGATGCCACCATTTACAGACCGCTGGCAGCAACACGCTCAGGCCATAGAAGTCGATGA

Appendix A

-355-

AGAAGGACAAGTCAGCGGCCAAACCACACCGAGTAAGGACAGCGATGCCCGTTGGATCAA
GAAAAACGGCCTCTACAACTCGGTTACAAACAACATACCCGTACCGATGCGGAAGGCTA
TATCGAGAAATCGACATTACCCCGCCAATGCCCATGAGTGCAAAACACCTGTCGCCGTT
GTTGGAAGGGTTACCCGAAGGTACGACCGTCTATGCCGACAAAGGCTATGACAGTGCGGA
AAACCGGCAACATCTGGAAGAACATCAGTTGCAGGACGGCATTATCGCGCAAAGCCTGCCG
CAACCGCCCGCTGTCGGAAGTGCAAAACCAAGCGTAACCGATATTTATCGAAGACCCGTTA
TGTGGTCGAACAAAGCTTCGGTACGCTGCACCGTAAATTCCGCTACGCCCGGGCAGCCTA
TTTCGGACTGATTAAAGTGAGTGTGCAAAAGCCATCTGAAGGCGATGTGTTGAACCTGTT
GAAAGCCGCGCAACAGGCTAAGTGCGCCTGTTGCCGCCCTAAAAGGACGACGGATGCTGA
TTATCGGGTATCCGGGGAGGATTAAGGGGCGGTTTGGGTAGAATTAGGAGATATTTGGGG
CGAAACAGCCGAAACCTGTGTTTGGGTTTCGGCTGTCGGGAGGGAAAGGAATTTTGCA
AAGGTCTCATCTGTTATTTTACAAAAACAGAAACCAAAAAACAGCAACCTGAAATTCG
TCATTCACGAAAGTGGGAATCCAGTGCGTTGAGTTTCAGCTATTTAGAATAAATTTG
AAACTCTAATCGCGTCATTCCACGAAAGTGGGAATCCAGGACGCAAAATCTCAAGAAAC
CGTTTTACCCGATAAGTTTCCGACCGACAACCTTAGATTCTCGCTGCGCGGGAATGAC
GAATCCATCCATACGGAACCTGCATCCCGTCATTCCACGAAACCTGCATCCCGTCATT
CCAGAAAGTGGGAATCCAGTTTGTGAGTTTCAGTCATTCCCGATAAATTGCCTTAGCA
TTGAATGTCTAGATTCCCGCTGCGCGGGAATGACGGGATTGAGATTGCGGCATTTATC
AGGAGCAACAGAAGCCGCTCTGCCGTATTCCACGAAAGTGGGAATCCAGTTTGTGAG
TTTCAGTCATTCCCGATAAATTGCCTTAGCATTGAATGTCTAGATTCCCGCTGCGCGG
AATGACGAATCCATCCATACGGAACCTGCACACGTCATTCCACGAACCTACATTCCG
TCATTCCACGAAAGTGGGAATCCAGTTTGTGAGTTTCAGTCATTCCCGATAAATTGCC
TTAGCATTGAATGTCTAGATTCCCGCTGCGCGGGAATGACGAATCCATCCGTACGGAAA
CCTGCATCCCGTCATTCCACGAAACCTACATTCCGTATTCCACGAAAGTGGGAATCCA
GTTTTTTGAGTTTCAGTCATTCCGATAAATTGCCTTAGCATTGAATGTCTAGATTCCCG
CCTGCGCGGGAATGACGAATCCATCCGTACGAAACCTGCACACGTCATTCCACGAAA
GTGGGAATCCAGTTGCTTCAGTTTCAGTCATTCCGATAAATTGCCTTAGCATTGAATGT
CTAGATTCCCGCTGCGCGGGAATGACGAATTCATCCGTACGGAACCTGCACACGTC
TTCCACGAACCTACATTCCGTATTCCACGAAAGTGGGAATCCAGTGCGTTGAGTTTC
AGTCATTCCAAATAAATTGCCTTAGTATTGAATGTCTGGATTCCCGCTGCGCGGGAATG
ACGAATTCATCCGTACGGAACCTGCATCCCGTCATTCCACGAAAGTGGGAATCCAGTT
TTTTGAGTTTCAGTCATTCCCGATAAATTGCCTTAGCATTGAATGTCTAGATTCCCGCT
GCGCGGGAATGACGGCGGGAATCTTGTATATTGAATCAAAAAAACCTGCACCTTAAT
CAGTTGGCGGTTTAGTCCGACTTTTGGGGTGCAGATCAAGCTTTCAGACGGTATTTCTT
TAAACTTCATTTCAGCGCGAGACTGAAGTTCCGTGCCCGTGCGGCATACCTTCCATAG
TTGCTGTGCGCGCGTGCCTGTTTCCGCTGCTTTCGCGAGCTGCGCGCAAGGATCCCAA
GTAACGTAGCGGTAGTTGCCGATATTGTAGATAGCCGCCCTCAAGTCAAGCGTTTTC
AGATTAGATAGCGGAAACGTCGCGCTGACCAAGAAAGACGACGCTCTTTTGTGAA
TATCGTTTTGATCGCCTGCCAGATAAGCAAGCTCGTCAGGGTTTTTCCCTTGGAATAG
GTCAGCATAATGTTGCGCCCCATTTCCCTCAGGCTGGTGTATCCGAACCCCAAAACA
TAACGCGACGGCTGTACCGCATCCAAAGCATAGCTGCGGAGGGACAGTCCCGCGCGTTG
GATACCGATTTCGGTTTGTAGCGGTTGTACGCCAATGTGGTGTACAAACCTTCGGGCAGT
TTGCCATACACGCGGTTCCAGTCGATTTTCCCAATATATTAACGCTTGAAGCGACATA
TTTTGGGCATTGTAATGAGGCGTTTCTGAAGCCGCTGGAGGACGCGTAAGACACGGA
AATTTGGTTTTGTGATCGGCAACGCAATCATATCGGTATAACGGTTGCGGAAGCTGCTG
ATTTCCAAAAAGCCGAAATCGCCCTTCCACTGCAAAACCGATTTCGCGGTTGGCTGCCCTT
TCCGATTTCAGGCGGGACGCTGCCAGCCTTTCGGATAATCGTGATAAATGTCTATCCCG
AAAAGTTCTTGGGAATGAGGCGTTTCTGAAGCCGCTGGAGGACGCGTAAGACACGGA
TGCCGGTTTCGGTTTGAACAAGATGCCGCTGTTCACGAACGGTCAACATACCGCCCGCTG
CGGACGAGTTCTTCCGACGTGGTGAAGTTTTCGCGTCTACCTGCCGCCCAAGCTGAAA
TCGAAATATTGCGCGATTGAAACCGGTCGTTCAAAGAAATAGGATATTGCTGCCGTTG
ATTTTCTTGGCAGCATTTCGCGGAACGCGAGGTTTCGATGTAGCCGACGACCGACCT
TCGACGACTTCGGGCTTACCCAAAGATACTTATCTTGATTGTTTTTCATCGAATCCCGTG
GATTCCGAAATCCTTGCCGCAATTGTGGGAAAGCTGTTCCGGGCGGGAAATCGCTTTGGAA
GCATCGTAACCGAAGCCCAAGTCAGATGGTGTTCGCTCATTTGTTTTTCAGCGATTTC
TCAAACGAGGCATTCAAACATTTGTGCTGTTCGCGGTAGTGGAACGGTCGCTGCTGCG
TAGGAATACGGTTTGTCCGCCGACGCGCGGACAGGATTGTCCACAGCAGGATACACGGCG
CAATTCAGCTTCAGCGTGTGTTATCGGTTGCCACGCCCTGTTTGTCAAACGACAACACC
GCCTTATCCGCCCAATTGTGAGAATACGCTTCGTTTTCATAACGATACAGCAAACCCATA
CGGCGGCGCGGATGTTTCGTCATAAATTTGGTGCGGGAATATTCAAACCTATGCCC
CTGACCAAATTTTATCGCCCTCCACTCTTCTATATTTCGCGCACAATAACAAGCGGTCG
CGGAAATCGTCCGCGTCGTACACCCGCTCTGTCTCTAAACTTTTCCGCCCTCGTCCGTA
CCGTAATACTGTTTTTCCGTCTATCGCGGATATCGTAACGCTGTTTGGTATCCTCAAAC
ACGCGCGCGACATAATGCTGCGGCCGAAGCGGTAGCCAGCTTGGCAAGCCAAGAGCCG
CTGCGGTAATCCATCGGATCGGGCAATATCCTGCCGCCGCCGTAAGCTTGGCGCGGAC
AGATTTTCGTGGCGCGCTGCGCCTCCCGCACCTGCGCCTCTTCTCAGCACTTAAGGC
TGATTTTGTTCATACGTTCTTTTACCCAGCGGTTGAGCTGGTTGTTCAAATATTTCCCG
TAGCCGCAATTTTGCACGGGCTTGATTACGCTCGCCCTCTACTGAGAAAAATGGC
TCTCTTGTCTTGGCTTAAATATCGTATGTCTGACGGAACGCGTCCAAACGGTCTATGCCG
TATTCCACCCCGTCCGCAATATCGCCGTGCGGGCGCGTTTCCCGCCCTTGGCGTTCCGTT
CGGATTAACAGCCCTTCCCAACCGTCTTTGCTGAACCCCGCGCCGAGCGACTTCATAAAT
TGGCGGTTTTTACTGCGGTAGGCGGTTTTTGCCTGTATCCCCCACTTTTGGCGTCTGAA
ATCAGGTCTGCGCGCTCTTTGGTGCGGAAGGCGACGCGCGCGCGAGTGCGCGCTGCCG
TGATCGGACGAACCGGCACCTTTGTGCAATTCACCGTGCTGATGTTTTATATTCGATT
TCGTTGATTGCACCGCTGCCGCCGCTCCCGGTATCCGCTCAACGATCCCTGCACGGTA

Appendix A

-356-

AACGCCTGTATTTGGGCAACACCGTCGACCGAAACCGCCACACGGTTTTTATCCACGCGG
CGTATCGAGTAGCCGCGCTCGCGCCGTTGCCCTGTTCGACAACCGCCACGCCCCGATCG
TAGCGCGTCAGGTCCGGATACCGAGTACCTGTTCTTTGTTCAACGTTTCCGACGTTTGG
ACGATTTTGCCCAAACCGGTCGCCTCTTTTCGATCGCGCTCCCACTTTGGCGGCACGGACG
GTAATCTCTTTCAGGGATTGGGTCTGCGCGGCATCAGGTGTGCCCCCCCCGCTTGGGCA
GCATAAGCCGGAAGCGGTTGCAATGGCCAAGGCAGTCAGAGTCAGCGGAAAACCGTGT
TTCTTATTCATTTTCCACCTCCTGCATATCTTTCTTCGCACCGAAATACCACGCCGAAT
GGTGTTTAACTTCAGATTCTAACTGTTTGCCAACATCAACTTCAGCATCAACTTCAGCTT
CAACATCAACTTTATTTTCAGTACCTTCAGTTATACCAAGAGATTTCCCATCATTATTGA
AAATAATACCGCCCAATTCCTCCGCTGCGGGCCGTAAAATCCCCCTTCTACACGAAGAT
TACTAGCTTGAAGGTTTTTGGGTCGGTCGAACCATTTCCCGAAAGATTGATGCCGTTCT
CCCGAGTGCCTGCTGTCGCGTAGAACCGTTGCCCTCAATCTTGCCGTTTTCAATATGGA
AAGCAGGTTCTACACCGTTTTCTCCGTCAGCGTTCCGGAATCGATTCTTGCCGAAAT
CAACGGTAAATACCTGCTTTTGCCGCTTCTTTATCCGCTGATTGTCCCATTTGAATGGGT
TGCCGATACGCGCTTCCCAAGTGCCTGATAGTGTCTTCTCCAGTTTTCGGAATATCCG
TTTCCGCGTGCCTGATACCTTTTCAGGAAAGGTCGATGTTCTGCTTTAGGGGCTTCCG
GAGCGGGCAGGATGCGCTGAAACCGCTGCGGCCCTTCTTCTGTCGGCATTCTTCTCGG
GTTCTTCAGCTTCATCTTACCTTCTACGCTTCTGCTTCTTCTGCTGCTTCTGCTTTTA
CGGCTGCGCTTTCGGTGCTTCTTCATCGTCGATTTCGCTTCCGCTTCTTCGACGCTAT
CAACGCTGTATCTCTTCTGCTCCCTCTCTTCTGCTGCGCCCTTCGGTTTGGCGGCGGAC
GTTCCGTTTGCATCCGTCGATTTTTCACATAGGTGAGAAATCGCAGCAGGTTCCGATTG
TCGTTTTCTACCATCGGCAAGCTCGATGGTTTGTCTTTTGTACCAAGGAATTTAC
GCCCTTCGACAAGAAGTTTGTCCGGATGACCAAAATCGGCGATAGAGGAATGGCAAACT
CACGGGATTTTATCATCTGCTTCGCTCAACGGAATTTTTCAGAGATCCAAGATTTGG
TGTGTTTTCCAGACGACAGGGCAGGTTTTGTATCTGCTGCGTTTTCTGTCTCTGTTTTT
GTTTGCTGCGAATACCGCAATACGCTGTTGTCTGTTGCTGATAAACCGTCCGGCAAGCT
CTTCTCGGTTATCCGGAAGAACCGCCCTCAAGCGCTGATCGGCATCGGTATGGA
ACAAATATTCTTTATCAGCGTGTGCGTCTTACCTCGGTGCTAACTTTGGCACTGCCG
TAAAGCGGTTGCCGTCATGTTGCGGTAAATGTCGTAATGGTCAGCGGTTTTTGGGCT
CATTTGGATTACTTTTATTTGACATACTGATTTTAAATCAGCTTGCCATTACGGGTTT
TGTTATCAAAATCAACCGTATATTCCGGCAGGATGCTTTTCCCTGTCGTCGGCATCCCTAG
CCTCATAGAAGTTGCCCAATTTTATTACCATATATGTTGTATAACCAATCCGTAC
TGGAAACCGCTTACCTGTCCGATGACGTTTGGCATCGGTATATATTGCCAGTTACCGG
AATATTGACCGTTTTCCCGCTCGGTAAAGATTGGGAAGGACGTTCTCCGGAATAATATA
CAAAACCGTCATACTAAATCGGTTAAACAACTCCTTACCATCAGAAGCTTTTCTTTTT
CATTATCTTTCTTCCGCTCGGTAAACACATAGCCCGCAGGACAAATGATATTGAT
ATTTTTCTTCTTTTTCGATGTGATAACCTCAGATCAGAATACCGTTCTGTTGATTT
TCTTTTTAAGTTTGTAGCTGTTCTTTTACGCTACCGTCTAAAAACAGGATATCCTTCT
CTTTAAGCGGCAGATGCTCCTCTGCTGATGCTTTCGGAATTTCCGTACCGTCTTGT
TATAGGAAGCAATATCCGCTTGGCAGCCGATTCGCCACCGACGGCGGGCGGTTGA
CCGGCTGTTTTCTTACCGAAGACCGGCGAGGGGGCGGAGTGGGAACGTCCTTAGATTGA
AGGTGACGGGTACCGGTCGGCTTGATTGACAAACAGGTCGACGCCGAAATGCCGC
CGATACAGATGCTAAAGTAAGGGCAACAGACATGCCGCCATAATTCGGTTTACACA
TCCCTACTTTTCTCTATTGATTAAATAAATATCATTATATTAAATATGTACAGATAA
TATCAAGCCGTTTTTATAGTGAATTAACAAAAATCAGGACAAGGCGACGAGCCGACAGA
GTACAGATACATTCCGTCATTCCACGAACCTACATCCCGTCATTCCACGAACCTGCAC
CACGTCATTCCACGAAGTGGGAATCCAGTTTCGTTCCGTTTCGCTTGTTTAAGTTTCG
GGTAACCTTCTACTTCGTCATTCCACGAACCTGCATCCCGTCATTCCACGAAGTGGGA
ATCCAGGACGCAAAATCTCAAGAAACCGTTTTACCTGATAAGTTTCCGCACTGACAGAC
TAGATTCCCGCTGCGCGGGAATGACGGGATTGAGATTGCGGCATTTATCGGGAGCAAC
AGAAGCCGCTCTGCCCTCATTCCACGAAGTGGGAATCCAGTTTCGTTTCGGTTTCGCTT
TTTTAAGTTTCCGGTAACCTTCCACTTCGTCATTCCACGAAGTGGGAATCCAGTTTTT
GAGTTTCAGTCATTCCGATAAATGCTTAGCATGATGCTAGATTCCCGCTGCGC
GGGAATGACGATTTTAGTTGGGGGCAATTTATGGGAAAGCAGAAACCGCTCCGCGT
CATTTCCACGAAGTGGGAATCCAGTTTCGTTTCGTTTCGTTTGAAGTTTCGGGTAA
CTTCCACTTCGTCATTCCCGCAACCTACATCCGTCATTCCACGAAGTGGGAATCCA
GTTTCGTTTCGTTTCGTTTGAAGTTTCGGGTAACTTCCACTTCGTCATTCCACGA
CCTGCATCCCGTCATTCCCACTAAAGTGGGAATCCAGGACGCAAAATCTCAAGAAACCGT
TTTACCTGATAAGTTTCCGCACTGACAGACCTAGATTCCCGCTTATATGATGCGCTCTA
TCAAAGGGGCGCATTAATTTCTTAACATCCCCCTTGACAGCCAAGTGAAGGGGCTTT
TTTATGTCAGCAGTAAATGTAATATTTTCTGTTCTTATTGGAGAATATTTAAAAATCA
GATTCTTGTGTTTTGTGTTTTATCAGTTCAGACATGGCGAACCAGCATAAACTCATTAAT
CAAGAGAATTTTCAAAGCTTTATCAGGCGTTGATTATATAGATTTCGGTTGGTTCGAAT
TTTCCAGTGATTATCAACCGGATGGTTGTGCTTTTTTTGTTGATCTTTAAAGTTTGT
CAGGATTTCGCTTTCGCTTTCGCTGACCGCTGATCGCGCTTTAGCGCGGAAGACGGGAACG
GCTGAAAGCCCCCTTACTAACAGGGGGGAGCGAAATTAACCAATTTCAAGAG
TAGTGAACGAATGAGTGAAGTTGAATATTTCTCACACTTTATATCGGACGGAAAAGGAA
GCTTTTGAAGATTTCCGACGCAAGAGGTAAGCAAGACGGGGTTTTTGTGATTGGATTTC
ATTACATTCCATGAAGATACTTTACTGAAAGTTTCCGGTTGCCCTTTATTTTCTGATGC
TGAATACATGATGTATTAAGCAGAAAGCTGGAAGAAATTCAGGTTTGGCATAACGCG
CAATGCAATCAAGGGGCAACAAATCTATGAATCCATGTATAGGTTAGGTTCCGATGA
TGTGATTATGGAGAGGTGCAATTCGGAGGTGACGCAATAGCTTTTGTGAGTTGAA
AGGTACTGGTTGACGCTTGAAGTCCGGGTTGGGAGTTGAGGCTAAAGCAGTTTCTCGA
TGATTTCGATAAGGACAAGAATAACCGCAATTGACCTAGCACTTGATTTTTTTGATGGAGA
GTACACGCCGATCAGGCTTGTGATACGATAATGGTTTTTTTGATAACAGCAATCA

Appendix A

-357-

AAGGCCGAAATCTGAAACGATCGGTACGGCTTGGCGGAATGAGGACGGGAGCGGCAAGAC
ATTTTATGTAGGTGCGAAGAAAAATTTCTCGTTTTGTTCGTGTTTATGAGAAAGGCAGGCA
GCTTGGAGATAAAGAAAGCAAAATGGGTAAAGTTTCGAGATCCAGTTTAATTATGGAGATAT
AGAAATACCCCTTGGATATTTTAATAAATCAGGGTTCGTATTCTGTGGAGCTTTTCCAAT
TTGTAGAAAATTTAAAAATATGCCGTTCCCGAAAGGTTTGATCAGAGAAAGAAAAAGCT
TAATTTAATCTTCGAGCATAAATTGCATTACGCGAAAAACGCGTTGGAAAACCTGGTCAA
TTTCATGATTGAAATGGGTTTGTATAATAGCGAAATTTGGGAATCTTTAAAGGCAGATTTC
GGGATTTCCCAAAGGATTAGAACCTGAAAAATATGCTCTGGAAATGTTAAGGGACGGTTT
GAAACACGGTTTTATTATGAACAGCCGGATATTGATTGGAAATTGAACCTTGATGAATT
GGGGGTTATTGCTTTTAAAAATTTGACAAATTCGATAGGGAAAAAAGGCTTTTATGTCC
TGATTATGATGTCGAGAAAGAAAGAAATATCAGGAATATTTAAGTAAAGTTTATCATCA
AAATGTAGATTATGATTATTTTAAAGGAAATCAAATGTTAATCAAACCTCAAACGTGA
ACTTATCTGCAACTTTTTTGGGAGCCAAAAATTCAAAGCGAAATGATGGCTCTAAT
ATCGACACTTGTTCGTATTGGTTGCAACACCTTTGCCGGCACAGTCGGGAAATGCTGTT
GGATTACGGGCAGCACAAATGAAGTTCGGGGACAGTAAGAAATTTCTCAAATTAGAGAAT
CTCAAATACCCGTGCGAAGTTATGGTAACGGTTGAAATGACTTCGACAGGTAAGGGCATG
GTTCTTTCATTATGATTGATTTTCAGGTGGCAGAAAGCCGAAAGGTTGATTTATGAAATTT
GAAGAACGTTTCATAGTTCAAGACTTGGAAACGCATGACTTTATTTATCCCGATCCTTTC
GGTGATGTGGGTTTACTCAAAATATTAATCAGCAGGTCAATTTGAAAGCTACGAAGAT
GCGTTGAATTCAGGCATAGGATGAAATAGGCGGAGGATTCCAGATATTTAGTTCTTCGTA
AAATCGGAATAAAAGAAAAACAGGCTCGGCGGGCGGTCTGTCAACCTTTCACAAAGCCCG
CAACAAAGGAAAAATATCATGAAATGAACCTTGCAACACTAATTATCGGCTGGGTGGTC
TGTATGTTTCTTTCTTTTCGCAATCCTCTATTTTATCGGCTAAAAACGAGATTCGGAA
AAGACTTCGTCCGGATGAAGCAAGTCAAGAAGTCGTCTTATTTTAAATATCAAAAAGGA
AAAAACGATGAACATCGTTAAAAATACGCTGTAAAGCAGCCTTGGCAGCCGGTATCT
TCACACCGGCCATTGTTATGGCAGATACCTTTGATCCATCCGCGATTGGTACGCAAGTAG
CGAATGTAATCATGGGTTTCGTGTCAATGGTTTCCGCCGTGGGTATGGCGGCCATTACCG
TGATTCTTGCAATCCAAGGCTTCAAATGGCTTGGAGCATGATTAAATCTGTCAAATAAA
CAGAGTGAAGAAAAGGGGCGTATAAATGGGCTATCGTGTCCGCATAAATGTTTTGATA
CAAGATTGCGAGGACGACATTTATTGTGCTCCCTTCTCTACTGTTACCCAGGACG
GAAAAATCATCAGGCCGGAAGGGTGGGCGATAAATGGATTTTGAACGGAAGCCGGTTA
CGTTGTCTTATCCGGAATGTTCCAATTTTGAAGCAGATAAAGCAAGGTTCTTATGTCCGTT
CGACGGTTCTAATCTGTTTGTAGTCATTACGGTTTCAGGCTTCTGATTAATTTTTTAA
AAGACATAGGCAAGGTTGGGACTGATTGATGATTATAGATTCTGTTTCTTCTCGGTTT
CTTCTTGGCTTTGTCTGTTGCTTGGCTGTTTGGTAACGGTTGGTAGAATCGGCTTTTTA
GAGTGTTTTAAAGGTTCCGAATATGTTTATTTCTGAATATCATTTAGTTAAATTTCAAA
CTGATTACATATTTATAGAGATTACCACAAGCGTTAATTTATTATAGGAATTGATTA
GAAAAGGGGTTTTTAAACTTCGTTTTTCATTGATATTTTATAGGAATTTCTTTCATCGTT
ATGATAGAGATTTATAGAAATCAATCCCTGATCTTCTACATTATTAATTAATTAG
ATGAAGCAAAATGTTATGTTTATTATCTAGGGCGAAATTTTTTAAAGATTATCCTATGC
TTTAGTTTTTTTGGTATCTTAAATTTGCATTGGCATCAGTAATGCTCCGGGTAAATTTGAT
AGGGTTGAAGTTTATGATGATGGCAGATATTTAGGTATTCGAGGTTGAGATGACAAAAGA
AGAAGATTTGGAAAGGTGATTTGATAGAGAATCGGGAAGATATTTAACTTCAGAAGCT
CAAGATTTAAAGGTTAGGCATGTATCTACTGGAGCATCAAGTACGGGTAAAGTTAGTTTCG
GTTGTATCTTCAATCAGTTTCCCGCGCTGGCGTATTGGCGGGGTCGGCAAACTTGCCCGC
TTAGGGCGGAAATTAAGCACAAGGGCAGTTCCTTATGTCGGAACAGCCCTTTAGCCCAT
GACGTATACGAACTTTCAAAGAAGACATACAGGCACAAGGCTACCAATACGACCCCGAA
ACCGACAAATTTGTAAAGGCTACGAATATAGTAATTTGCCCTTTGGTACGAAGACAAAAGA
CGTATTAATAGAACCTATGGCTGTACGGCGTTGACAGTTCGATTATGCGCCTTATGTCC
GATGACAGCAGATTTCCCGAAGTCAAAGAATTGATGGAAAGCCAAATGTATAGGCTGGCA
CGTCCGTTTTTGGAAATTGGCATAAAGAAGAACTGAATAAATTAAGTTCTTTGGATTGGAAT
AATTTTGTTTTAAATAGTTGCACATTTGATTGGAACGGCGGAGATTGTGTGGTCAATAAA
GGTGATGATTTAGAAATGGGGCTGATTTTCCCTTATTCGCAATTCAAAATACAAAGAA
GAAATGGATGCCAAAAGCTGGAAGAGATTTATCGTTGAAAGTCGATGCCAATCCCGAC
AAATACATAAAAGCAACCGGTTATCCCGGTTATCCGAAAAAGTAGAAGTCGACCCCGGA
ACAAAAGTGAATATGGGTCCCGTCACGGACAGGAACGGGAATCCCGTTCAGGTTGTGCGA
ACATTCCGCAGGGATTTCGAAGGCAACACCACGGTGGATGTTCAAGTAATCCCGCTCCC
GACTTGACCCCGGAAGCGCGGAAGCACCCGAACGCACAGCCGCTGCCGGAAGTATCGCCC
GCCGAAACCCCGCAAAACACCCGAACCCCAATGAGAACCCCGGCACGAGCCCAATCCC
GAACCCGACCCCGATTGAATCCCGATGCAATCCCGATACGGACGGACAGCCCGGCACA
AGACCCGATTTCCCGCGGTTCCGGGACGCACAAACGGCAGGGACGGCAAGACGGAAAG
GACGGCAAGATGGCGGCCCTTTGTGCAAAATCTTCCCCGACATTCTCGCTTGGCAGAGG
CTGCCCCGAGTCCAATCCCGCAGAAGATTTAAATCTGCCGCTGAAACCGTCAATGTAGAG
TTTCAGAAATCAGGAATCTTCAAGATTCCGCACAGTGTCCGCACCTGTCACTTTTACA
GTGACTGTGCTTGAATTCAGCAGGCAAGTTCGCGTTGAGTTCAGTTTGAAGCGCATGTACCATA
GCCGAACGGCTAAGGTACATGCTTCTCGCCCTTGCTTGGGCGGTTGCCGCCTTTTTTGT
ATCCGCACAGTATCTCGTGAAGTCTAGCAGGCGCAGCACCCGCGGGCTTCAGTAACTTGT
ACCAAGCGCAGGGGAGGACGTCCAGAAAGATTTGTAAGACCGGCTTATCGTCTTTTATAA
ATCTTTTTGGATACCCCTTGCCGCCCCGCCAAAAGAACACATTCTGCCGCAAGGGCAGGT
GGTAAGGCGCGCGCTTTTGCGCCGTTCCCCCTGCCCGCCGGCGTCGCAAGTGAGACTG
GGGTGCGGGGCTAGTCCCGCAAAGCCTTTCAGCTTCGGAAGCCACGGCCGAAAGGCA
GGCGCAGCACTGCCGCTGTAGCGGAAGCCAGGCTACAGGCAGGCGCAGCACCCCGGAGC
TAGGGCGAAGCCAGGCTACAGGCAGGCGAAGCACCGCCGTTGGGCGGAAGCCACGGCCG
AAAGGCAGGGCGAAGCACCGCCAGGCTTAGGCGGAAGCCACGGCCGAAAGGCAGGCGAAG
TACCGCCGCTTGGGCGGAAGCCATGGTAAAGGCAGGCGAAGCACCGCCGGGCTTCAGT

Appendix A

-358-

AACCTTTGTTTCAGGCAGGGGAGGATGTCCGTAAGAATCGTAAAGCGGGGTTTTTCG
CCTTTATGATTCTTTTTGGATACCCCTTGCCGCCCGCCAAAAGAACACATCTGCCGCA
AGGGCAGGTGGTAAGGCGCGCGCCTTTTGGCGCGTCCCATGCCCGCGCGGTGCGAAG
TGAGACTAGGGGGTGTGGGGGACTAGTCCCCGCAAGCGTTACGCTTCGGAACTTTGG
CCGAAAGGCAGGCGAAGCAGCGCACTTTGCGACGAATGTCGCAAAATAGCCGAGAAGCGG
GGGGGATTGGCGATAAGCGCGAGGGGGGTGTCCCCACAGCGCCGCCGCCGCGCAATGCG
GCGCAAAATCTTTAGATTAAAGAACATTTGTTTAAATGAGGCAACCGTGCTTTTAAAGAA
AGGGATAGCAAAATGAAATTGTTGGCCGATGATTCCGCTTTTGATGAGCGTGGCAGGCC
GTATATTGACTGCATTAGGCTTGATGGCGGTAACCTATTACAGGGGTGGATAGATTGGTAG
CCCATTTTCAGCAGGCGATAACCAATAGCATAACGGGCGCGCTCAAGCGATGTTGCAGC
TTTTTTATATAAGCGGGGTGGAACCGTTCTTAATATCCTGTTTGGCGCGATCGCCTTTA
TTCTGTCTATTCAACAAATGACAAAACCTAGCAACCTCAATCGGGAAGAAAAATAAATGG
CAGAGATCTGTTTGAATACCGGCACGCGCGTTTACGGGAAACATTAAAAATGGTTTCCA
TGATGGCGAATGATGAAATGTTTAAAGCCTGATGAAAACGGCATAACGCCGTAAAGTATTTA
CGAACATAAAAGGCTTGAAATACCGCACACCTACATAGAAACGGACGCAAAAAGCTGC
CGAAATCGACAGATGAGCAGCTTTCGGCGCATGATATGTACGAATGGATAAAGAAGCCCG
AAAATATCGGGTCTATTGTCATTGTAGATGAAGCTCAAGACGTATGGCCGCGACGCTCGG
CAGGTTCAAAAATCCCTGAAAATGTCCAATGGCTGAATACGCACAGACATCAGGGCATTG
ATATATTGTTTTGACTCAAGGCTTAAGCTTCTAGATCAAAATCTTAGAACGCTTGATC
GGAACATTACCAGTCGTTTCAACAAAGATGGGTATGCGTACGCTTTTGAATGGAATA
TATGCGCGGACGATCCCGTAAAAATGGCATCAAGCGCATTTCTCAGTATCTATACACTGG
ATAAAAAAGTTTTATGACTTGTACGAATCAGCGGAAGTTTCATACCGTAAATAAGGTCAGC
GGTCAAAAGTGGTTTTACTCTGCCAGTAATAGTATTGCTGATTCCCGTGTGTTGTCGGCC
TGTCCTATAAAATGTTTGAAGCTTACGGAAAAAACAGGAAGAACCAGCAGCACAAGAAT
CGCGCGCAACAGAACAGCAGGCACTTCCGGATAAAACAGAAGCGAGCCGGTAAATA
ACGGCAACCTTACCGCAGATATGTTTGTCCGACATTGTCCGAAAAACCGGAAAGCAAGC
CGATTTATAACGGTGTAAAGGCAAGTAAGAACCTTTGAATATATAGCAGGCTGTATAGAAG
GCGGAAGAACCAGTATGCGCTGCTATTTCGCATCAAGGGACGGCATTGAAAGAAGTGACGG
AGTTGATGTGCAAGGACTATGTAATAAACCGGCTTGCCGTTTAAACCATACAAAGAAGAAA
GCCAAGGGCAGGAAGTTCAGCAAGCGCGCAGCAACATTCCGACAGGGCGCAAGTTGCCA
CATTGGCGGGAAGAACCTAGCAGAACCTAATGTACGATAATTGGGAAGAAGCGCGGGAAC
CGTTTGAAGGAATCGCGCGGGGCGTGGTCCGATCGGCAAACTGAAGAAAACGGCAAGAGA
GAAAAAGACCCGTAAACCGTTTGAATATAGACGGTTTACGGGTCTTTGTTTCGCGCAAA
GCAAGGGCTAAGGCGATGAGCAGCAAAATCCCGCAATGTATTAAACAGACGCGTAGAAA
TGCCGGCTGCTTTATCCATCCTCGAAATGAATATCATCTAGCCGTATCAAGGCTGTA
TAAATAAGGAAAAATACCAATGAATATAATCGGGCTGGACATCTCAAGGACACCATAGAC
GCAACATTGCATAAAACAAACGGAAGTATCCATTACATTAAATTTAAGAATAATGATGAT
GGATTAAAAACAGTTTAGATTGTGGATAAAGGGAAACAGAAATCAGAAAAGTCTATATCGGC
ATGGAGGCAACAGGCATCTATTACGAAAAGGCAGCAGATATGCTTTCTCTACTATACT
GTTTACGTTATTAATCCCTTAAAAATCAAGGACTACGGAAGAACAGGTTTAAACGTACC
AAAACCGCAAGCGATGATCAAACTGATAGCAGACTACATAAAAGGCATCAAGATACA
TTGATACCGTATCAGATACCCAAAAACAAAGCACTGCAAAAACCTGATTACCTTAAAAAT
CAATTACATCAACATCAGAAGCAAAATTAATAACCGTCTTTCATAGCACTGAAGAAGACTTC
ATAAGGAACATACATCAAGACTTGATAGATACCATACAGGACAAGATGGAACAGGTAATA
ATAGCCATATCCGAACAAATCAAAAAACAAACGGACAATAACCATTACCGCAATCTTCAA
ACCATCCCGAGCATAGGCAAGACACCGCATCAGTTCTTTATGCGCAACTGACAGAAAAA
CATTTTAAACCCGCAACACAGTTTGTATCCTATGCCGATTAAATCCCGCATCATACAA
TCAGGGACAAGCGTAAGAGGTGCGGGCAGATTGAGCCGATACGGAACAGACGATTAAAA
AGTACGCTGTATATGCCCGCCCTTTGTGCTTACCGTTTAAACGCATTTCGGAATTAATA
AATAATCTGAAAAAGCGGGTAAGCCAAAGATGGTAATCATCGTTGCCATCATGCGCAAA
CTGGCGAAGCTCCCTATTACATTGTTAAACCGGCCAGCCTTACGATGCGGAAGACAC
CGATTGAATCAATAAAATTAACAAAAATTAACGGTTACGCGAATATATTGTGTAACCG
TGCATTTGCATATCGTAATAAACGTAATAAAATAACAATATAAATCAGTATATTGCA
ACTTTGTTTTTTATTTGTGTTGACGGGCAACATATCATCTGCCGCGGAATGACGGGATT
TGAGATTGCGGCTTTATCGGGAGCAACAGAAGCCGCTCCGCCGTCATTCCACGAAAGT
GGGAATCTAGTTCGTTCCGTTTCGCTTGTTTAAGTTTCGGGTAACCTTCACTTTCGTCAT
TCCCACGAAAGTGGGAATCCAGTTTGTGAGTTTCAGTCATTCCCGATAAATGTCTTAG
CATTGAATGTCTAGATTCCCGCTGCGCGGGAATGACGAATCCATCCATACGGAACCTG
CATCCCGTCATTCCACGAACCTACATTCCGTCATTCCACGAAAGTGGGAATCCAGTTT
TTTGAGTTTCAGTCATTCCCGATAAATGCTTAGCATTGAATGTCTAGATTCCCGCTG
CGCGGGAATGACGGGATTTTAAAGTTGGGGTCATTATTGGAAAAAGCAGAAACCGTCCG
CCGTCATTCCACGAAAGTGGGAATCCAGTTTGTGAGTTTCAGTCATTTCGATAAAT
GCCTTAGCATTTGAATGTCTAGATTCCCGCTGAGCGGGAATGACGAATCCATCCGTACGG
AAACCTGCACCACGTCATTCCACGAACCTGCATCCCGTCATTCCACGAAAGCGGGAAT
CCAGTTGCTTCGTTTCCGTTTGTGTTTAAAGTTTCGGGTAACCTTCACTTTCGTCATTCCCG
GCAGGCGGGAATCCAGTGCCTGAGTTTCAGCTATTTAGAATAAATTTGAAACTCTAAT
CGCGTCATTCCACGAAAGTGGGAATCCAGTTTGTGAGTTTCAGTCATTTCGATAAAT
TGCTTAGCATTTGAATGTCTAGATTCCCGCTGCGCGGGAATGACGAATCCATCCATACG
GAAACCTGCACCACGTCATTCCACGAAAGTGGGAATCTAGTTTCGTTCCGTTTCGCTTGT
TTTAAAGTTTCGGGTAACCTTCACTTTCGTCATTCCACGAAAGTGGGAATCCAGTTTGTG
AGTTTCAGTCATTCCCGATAAATGTCTTAGCATTGAATGTCTAGATTCCCGCTGCGCG
GGAATGACGAATCCATCCATACGGAACCTGCATCCCGTCATTCCACGAAAGTGGGAAT
CCAGCTTTTGAAGTTTCAGTCATTTCGATAAATGCCTTAGCATTGAATGTCTAGATT
CCGCTGCGCGGGAATGACGGATTTAGGTTGGGGGCATTTATTGGGAAAAGCAGAAACC
GCTCCGCCGTCATTCCACGAAAGTGGGAATCCAGTTTCGTTTCGCTTGTGTTTAAAG

Appendix A

-359-

TTTCGGGTAACTTCCACTTCGTCATTCCCGCGCAGGCGGGAATCCAGTGCCTTGAGTTTC
AGCTATTTAGAATAAATTTTGAACTCTAATCGCGTCATTCCCACGAAAGTGGGAATCCA
GCTTTTTGAGTTTCAGTCATTCCCGATAAATTGCCTTAGCATTGAATGTCTAGATTCCCG
CTGCGCGGGAATGACGAATCCATCCATACGGAACCTGCACACGTCATTCCCACGAAC
CTGCATCCCGTCATTCCCACGAAAGTGGGAATCTAGTTCGTTTCGGTTTCGCTTGTTTTAA
GTTTCGGGTAACTTCCACTTCGTCATTCCCGCGCAGGCGGGAATCCAGTTTCTTGAGTTT
CAGTCATTTCCGATAAATTGCCTTAGCATTGAATGTCTAGATTCCCGCCTGCGCGGGAAT
CCAGTGCCTTGAGTTTCAGCTATTAGAATAAATTTTGAACTCTAATCGCGTCATTCCC
ACGAAAGTGGGAATCCAGTTTTTTGAGTTTCAGTCATTCCCGATAAATTGCCTTAGCATT
GAATGTCTAGATTCCCGCCTGCGCGGGAATGACGCGGAGCGGTTTCTGTTTTTCCGGT
AAATACCCACAAGCTAAAATCCCGTTATTTTACAAAAACAGAAAACCAAAACAGAAAC
CTGAAATTCGTCATTCCCACGAACCTACATCCCGTCATTCCCACGAAAGTGGGAATCCAG
TTTTTTGAGTTTCAGTCATTTCGATAAATTGCCTCAGCATTGAATGTCTGGATTCCCGC
CTGCGCGGGAATGACGCGGAGCGGTTTCTATTTTTTCCGGTAAATACCCACAAGCTAAA
ATCCTGTTATTTTACAAAAACAGAAAACCAAAACAGAAACCTGAAATTCGTCATTCCC
GCGCAGGCGGGAATCTGGTTTCGTTTCGGTTTCGCTTGTTTTAAGTTTCGGGTAACTTCCAC
TTCGTCATTCCCGCGCAGCGGGAATCCAGTGCCTTGAGTTTCAGCTATTAGAATAAAT
TTTGAAACTCTAATCCCGTCATTCCCACGAAAGTGGGAATCCAGTTTTTTGAGTTTCAGT
CATTCCCGATAAATTGCCTTAGCATTGAATGTCTAGATTCCCGCCTGCGCGGGAATGACG
GCTGCAGATGCCGACTGTCTTTATAGTGGATTACAAAAATCAGGACAAGGCGACGAAG
CCGACAGACGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAAT
CGTTCCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTTGTTAATCCACTATACTG
TAATCAGGGATGCTCAGTTTCGTCGAAACGGCAAAACAGGTTGAAGTCGATGCGGGTGATG
AGGCTGTTTTCGAGTTTCGGGATCGGAGAGGCTGTGCCATTGTCCGAGCAGGACGGCTTTG
AACATGGACAGCAGGGGATAGGCAGGACGGCCGCGGTGGTCTCTAAGGTAACGGGTTTTT
TGACGGTTCAGGTATTGTTTCGATCAGCTGCCAATCAATCACCCGGTCCAACCTCAATAGC
GGGAAGCGGTCGATGTGTTTGGCAATCATGGCTTGGGCGGTTTGGCTGGAAGAAGGTGCTC
ATGAGAAATCTCCTAAATGCTTGGTGGGAATTTAGGGGATTTTGGGGAATTTTGCAAG
GTCTCAACTTGAGTTTCAGCCCCGCTTAACAATATTCAGTTGGTAAATATAGATAAAA
CCATAAAAAATAAATGATGGCTTTTATAATCCCGATTTCGGAATGCGGTCTGAAAG
TCTTCATTACAGGCTTTTCAGACGGCATTTTGATCATCAAGTAACGCTTTATCAGGCTTTT
TATTGTTCAACGACGCTTTGACAAACGCGGTGAACAAAGGATGCCCTTTGCGCGGATTGG
AGGTAAACTCGGGGTGGAATGGCAGGCGAAGAACAAGGATGGTTCGGCAGTTCGATGG
TTTCGACCAAGCGTTCGCGTCCGCGAGATACCCGCCGATGACCAACCTGCCTGTTCCA
GTGTAGGAACGTAGTTGTTGTTGACTTCGTAGCGGTGGCGGTGGCGTTTCGCGGATATGTC
CGCTGCCGTAGATTTTGGCGGCGAGGCTGCCTGCTTTCAATTCGACTTCTTGCGCGCCCA
AACGCATCGTGCCGCCAAATCGGTGGATTTCGTCGCGGGTTTCGACGCTGCCGTGCGCAG
TTTGCCATTTCGTCGCGCAGGCAACGACTGGCGCGCGCATTTGAGGTCGAACCTCGGTGG
AATTCGCGCCTTTCAAGCCTGCCACGTCGCGGGCGTATTCGATCAGCGCAATCTGCATAC
CGAGGAGATGCCAAGTATGGCAGCTTGTTCGCGGGCGTAGCGCACGGCGCGCATTT
TGCCTTCCACACGCGCGCAAGCAACCGCGGGAACGAGGATGGCGTCCATGTCTTTAA
GCATGGAAACGTCGCCCTTGTTTTTCTCGATGTTTTCGCTGTGACAAAGGTAATCTGCA
CGTCGGTTTCGGTGTGAATGCCTGCGTGTTCAGGCTTCGATCAGCGATTGTAGGACT
CGGTCAAATCGACGATTTTGCCGACCATGGCGATTTCAGCGGTGTGTTTCGGGTTTTGGA
TGGCGTGGACGATTTTTTCCACGCGGTCAAATCCGCGCTGCTGCACATTAAGCTGCAACT
GCTCGGTAAATGATGTTGTCGATGCCTTGGTCTGTGACGATTTCGGGGCATTCGTAGATGC
TGTCACATCGTAGCTGCCGACATCGCGCGTTCCTCCAGTTGACAGAACAGGCGATT
TGCGGCGTTTCGTCGCGCAGGCAATGCTGTCCATACGGCAATCAGGATGTGCGGTGCA
AACCGATGCTCAACATTCTTTAACGGTGTGCTGGGTGCGCTTGTTTTGATTTCGCCGTG
CGGCGCGGATGTAGGGGACGTAGCTCAAGTGGGCAACAAGGTGTGTTGCGCCCCAACT
GGCTTCGCATCTGGCGGATGGCTTCCAAAAACGGCAGCGATTTCGATGTCGCCGACCGTGC
CGCAATTTCCGCAATTCGCCACATCGTAACCTGCCGCGCTTCGTGGATGCTCGTTGA
TTTCGTCGGTAATGTGCGGAATGACTTGAACCGTACCGCCGAGGTAGTCGCCCCGTGCT
CTTTGGCGATAACGTTTTTCGTACACCTGTCCCGTGTGAAGCTGTTGCGGCGGGTCATCG
TGAATCGATAAAGCGTTTCGTAGTGTCCCAAGTCGAGGTGGTTTTCCGCGCCGTGCTCGG
TTACGAACACTTCGCCGTGTTGGAACGGGCTCATCGTCCCGGATCGACGTTGATATAAG
GATCGAGCTTGAGCATGGTAACGTTCAAGCCGCGGATTTCGAGGATGGCGGCAATAGAAG
CGGCGCGGATACCTTTACCCAGTGAGGAGACAACGCCCGCGGTGACGAAATGAATTGG
TCATAATGAAATACCCGTATTGGAATGCGTGATTTTAACGTGAAGCGCGCGGTTCGCGCA
AACGGACGGATGCCGTTCGAACGATGGACGGCTGTTTTACAGCGGCATCTTTCTTTATT
TCCCGGTACTTTGCCGCAACTCGCGGCGCAGGATTTGCCGACGTTGGACTTGGGCAACT
CGTCGCGGAATTCGATATTTTTTCGGTACTTTATATGCGGTTAATTCGGTGGCGCAAAAAG
CGATAAGTCTCTTTTGGTCAAAGACGGGTCTTTTTTACGACGAATACTTTGAGTGCCT
CGCGGTTTTTTCGTCGGGAACGCCGATACAGGCGACTTCATGACTTTGCCGTGATGCG
CGATGACTTCCGTCGATTTCGTTTCGATAAACATTGAATCCGGAACAACGACGAGGTCTT
TCTTACGATCGACAGCTTCAACAGCCTTTTTTCGTCATGACGGCAATATCGCCGGTTT
CCAAGAAGCCGCGCGCTATAGCTTTTGGCGGTTCTTCGGGGCGGTTCCAGTAGCCTT
GCATCACTTGAGGGCTTTTACCCACAATTCGCCCGGCTGCCGACGGGACTTCTTTGC
CGTTTGGCTCGCGCATTCGATTTCGGTGGACGAGACGGGCAACCGATGCTGCCGCTGT
ATGATTTCGATGTTAAGGGGTGACGACACGCCGGGGCTGGCTTCGGTCAGACCGTAGG
CTTCGACGATGGGCGTCCGGTGATTTTTTCCATTTTTTCGGCAACGGCTTTTTGGGTG
CCATACCGCCGCAAAAGTCAGCGCAATTCGAAAAATCGACTTCGGCAAAATCAGGAC
GGTTAACCATCGCGTTAAACAGCGTGTTCACGCCGATAAATACATTAACCCGCTGTTTTT
TCAGTTCTCCGATAAAGCTTTTCATATCGCGCGGTTGGTAATCAGGATGATTTTCGAGC
CGGATTGGCAAAAATCATCAGATTACGGTTAAGGCCAAAAATATGGTACAGCGCAAG

Appendix A

-360-

CGGCGATAACGGTTTCTTTGCCCTCGCGCAACTGGTTTTTAATCCATTCTTTTGCCTGAA
GCATATTTGGCGCAGATGTTGCCGTGACTCAGCACC GCCCTTTGGCAACACCTGTCGTGC
CGCCCGTGTATGCAACAGCGCGGTATCTTCGCGTTTAAATGCGACAGGTTGGAAAAAGCT
GCTTCGCCCTTCTTCAATGCCGTCTGAAAGGAAACGGTTTCCCGAATACGGTATTCGG
GCACCATTCTTCTGATTTTCCGGATGACGAAATTGATCAGCGAACCTTTAAGCAGCCCGA
ACATTTCCGCCGACGGAGGTACGATGACGTGTTTATCTGCGTGCGCGGCAGCACCAGCT
CCAGCGTGTGGCGAAATTTTCCAAAACGATGATGGCGGTGCGCGCCGTGTCTTTCAACT
GATGCTCCAGCTCGCGCGGGGTATAGAGCGGATTGGTGTTACCGCTACCAAACCTGCCT
GCAAAATGCCGAAAGGGCAACCGGATATGACAGTACATTGGGCAACATTATTTGCCACGC
GCTCTCCTCGAGGCAATTTAAGGACGTTTTCAGATAAGAAGCAAAATCTGTTGCCAGTT
TGCCGGTTTCGGCATAAGTCAGCGTCTTACCCATGTTTTGAAAAGCAGGTTGGTCGGCAA
ATTTTTCCACGCTTTGGCGGAATACGTGCTGACGGAATTGATTGCGTGATGTCGATTT
CGGCACTGACGCCCTTCTCGTAGCTGTCTAACAGATTTTTTCCATAGGTATCGGTCTTT
AAAGTGAATTGAGCGGAACATGCCGTCTGAAAACCGTTTCAGACGGCATTACCTTTAT
CGTGATGATGACGGGTTTGTGCGTCTGTTGGATGATACCGCCGCCCAACAGATATCG
CCGTGCTACAGCAGCGGAGTACCCGCGGTAACCGCCCATTCGCGTTTCGCAAAACACC
AGCTCGCGCGTTTCATCATCTCCAAATAGCGCAACTCACAAGCGCGTCCGCCATACGGTAA
CGCGTTTTGCAAGTATAGCGTCTGCCTTCGGGCGTTTCGGGCAGCGTGAAACTCAAATCG
TTCATCAACAAGGTGCGGGTATAAAGCAGCGGATGGTCTGTCCTTGCACGACAATCAGT
TCGTTTTTCGTCAAATCTTTAGCCGCAACAAACCGGTTCCGCCGCGCCCAATGCC
AAACCTTTGCGCTTCGCGAGCTGTAGAACATCAGCCGACGTGTTGCGCGACGGTTTTT
CCTTCGGGCGTAACCATTTTACCATTGTCGGTTCGGCAGGTATTTCTGCAGAACTCGCGA
AACGGGCGTTCCCGGATGAACAGATGCCGTGCTGTCTTTTTAGCGGCGGTTCGGCAGT
TTGAACTCGGCGCGCAAGCGCGGCACTTCGGGTTTTTCCAAACCGCCCAACGGAATAATC
GCGCGCTCGAGTTGGAAGGCTTGAGGCGGTAGAGGAAATAGCTTTGGTCTTTGTTTCGA
TCCAAACCTTTGAGCAGGTAAATGACGCGCTTGCGAACCTCTTTGCGCGCATAGTGGCGG
GTGGCGATGGTATTCGCGCCCTGCCCTACGCGTAGTCCAAAAGCATTGAAATTTGATT
TCGGCGTTGCACACACATCCGGATTTCGGCGTGCGCCCGCACTGTATTCTGAAGAAAA
TAAGCAAGACTTTGTCTTTATATTCGCGCGCAAAATTAACGATGTCGATATCGATGCCG
ATAATATCGGCAACGGCGATGGCATCGAACGAATCCTGTTGATGCTGCAATATTCGTCTG
TTGTCGTCTCTTCCAGTTCTGTCATGAACACACCGCGCACTTGATAACCTGCTGCTTG
AGCAGGGCGCGGTTACGGAAGAATCGACACCGCGGAGAGCCGACGATGATATTGGAA
GGGTTTGTCTGCTATTCTATGCGTAGAATATGGTTGGAAACGGCGGTTTTTAAAGCGGGA
TTTTAAACATATTTAAAGCGCGGCATAAAAATGCCGTCTGAAAGCCCGGGCTTTTTCAGA
CGGCATTTCAAACATTTTACGAGATTAGTGCTGATGCGCTTCGCCGTGGTGATGACCGT
GGTTCATTGCCGGCATCGCGCGCATTTTACTTCCAGTTGGACGGTTTGCCTTTGGCGT
TTTTAAATTTACGGGTAAACGGGAATTTTATCGCCCTCTTTAATTGTTTTTCAAACCCA
TAAACATCAGATGATAGCTGCGCGGTTTGAAGTTCGGTAACGGATTTCGCTTCCAAAGGCA
CGCCGCCTTCGACTTCGCGCATCCGCATCAGCCGTTGTCTGTTGATGTGGGTATGCATT
CGACGCGGTTCGGCAACGGGGTCTTCCGCCGAGCAAAAAGTCTTGTTTGGCTTCGTCTG
TGTGGATTTTCTATGAACGCGCGCCTATTTTCATACCTTCGACGGTGGTGCGCGCCAGC
CGTCTCAACGTGGACTCCGGCGCGGAAACCGCGCTGCCAAACCTGCCATCATCACGG
CCGCCAATAATTTTCTATCTTTCTGCTCTTATAATATCAGACGGGAATGTGCTTAAT
CTTATAGCGGATTAAACAAAACAGTACAGCGTTGCCCTCGCTTAGTCAAAGAGAACGA
TTCTCTAAGGTGCTGAAGCACCAGTGGATCGGTTCCGTACTATTTGTACTGTCTGCGGC
TTCGTGCGCTTGTCTGATTTTGTGTAATCCACTATACATACAAATACTGCCTGGAAATT
TGATGTAGATTAAGTGAATAATAATACCACATACTAATCTAAAGGATTACAAATCCTG
CTGCAAGCGTTTTTACCGAACAGGGCAGACAGCAACCGCGCCCAACATCAGCATCGCG
AACAATTGTGCGGCAGAACCTGCGTCTTTGGCGAGTTTGGCCAGCTCGTGTTTTTCGGTC
GAAGTATGATCGACGGCAGCTTCGACGGCGGTGTTGAACAGTTTCGACAATGACCGACACA
AAAGACGGGATAATCAACGGCAGGGACGGCGGTTTCGGAACCCAAAAAATGCCGCG
CACACCAGCAGTACGTTACGCCACAAAACCTGACGGAATGCCGCTTCGTAACGGTAGGCG
GCGGCGATGCCGTCTATCGAATAGCCGAATGCGTTAATGACGCGCCTGATGCCGCCTTTG
CCTTTTTTTCTGCCGCGTAGGAGGAAGTTCCATCGGTATCCTTTCAAATGTTCTCAA
TATAGTGGATTAAACAAAAACCTGTACGGCGTTGCCCGCCTTAGCTCAAAGAGAACGATT
CTCTAAGGTGCTGAAGCACCAGTGAATCGGTTCCGTACTATTTGTACTGTCTGCAGCTT
CGCCGCCTTGTCTGATTTTGTGTAATCCACTATATATACCGTCTGAAAACGGGGCGCG
GGGTGTCGTACGGTATTAAAGCGTATCCCTGCCGGCTGAGAGAAAACCTGCCTGCCCAA
TCAAACAGGCGGTTGTGAAGCAAAAGCCTTTCAGACGGCATCGGTTTAACGTACCGACC
ACGCGGCAACGGCATCGGCAACATTTGCCGCCACATCGAAACCTTTTTGTTTCATAATTT
CTTGAATCCGCTCGGCTGGTTACGTTGACTTCGGTCAAGTTGCTGCCGATAACGTCCA
AACCAGCCAGCAGGATGCCGCGCGTTTGAAGTTCGGGGGCGAGCGTTTCGGCAATTTTCG
GGTTCGCGTCCGCCAATTCCTGCGCCACGCGCGCCCGCTGCCGCAAGGTTGCCGCGTG
TTTCGCCGTTTTGCGGGATACGCGCCAAAGCATAGGGGACGACTTCGCCGCCGATAATCA
GGATGCCGTTTGTACCCGTGTACGATTTTCGGGAATGTAGCGTTGCGCCATAATGGTGCGG
AATCAAGCTGCATCAGGTTTCGAGGATGCTGCCGATGTTGGGGTCTTTTTCGGTACGGC
GGAAAAATCCCATACCGCCATGCCGTGACGCGGTTTGTATGATGATGTCGCGGTGTTCTT
TCAAAAATGTGCGGATCGCGGGAACGGGTGTTACAGCGTGGGCGGATAAAGCGGC
TGAAGTTCAAATCGCCAGTTTTTTCATTAAAGTCGCGCATCGCCTGTCCGCTGTTAAAGA
CCTTCGCGCCCTGTGTTCCGCCAGCGTCAGTAATGGGTGGCGTAGAGGTATGCATAT
CGAACGGCGGATCGGTACGCATAATCAGGCATCAAATGCTTCCAATGCCGTCTGAACCTT
TGTGCGCAGATTTGACCGCATGATCATCATCGTTTTTTCGACCAAAAAATTCAAATG
CCGATGCTGCGCGTTACCAACCGCGCTTACAGACAATCCCCGCTCAATGTGTGAA
ACAGCCGCCAGCCGCTTTTGCCATTTCCGCGCATCATCGCTAGGTGGTGTCTTTATAGG
TTTTGAAACTTGCCATCGGTCGGCGATAAAGAGGACTTTCATCATATTTCTTTCCGGT

Appendix A

-361-

GTGCCGAATGTGCCGATTTCGCGGGTAAAGGAGAAATTCGCCCGGAACAATTCAGAC
GGCAGGGATGGGGTTTTACTTAGGCTGCCAAGAGTCTTTCAGCGTTACCGTGCGGTTAAA
CACCGGGTGTCTTTGCCGTGGTCTTTACGGTCGGTTACGAAGTAGCCGATACGCTCGAA
CTGCCAACGGCTTTCTGCCGGCAAATCTTTGGCGGCAGGTTCCGGCTAGGCGGTGATTTC
CTTGACGGATTCCGGATTGAGGAAATCGGTGAACGGCAGGTATTCGCCGTCTTCGCCGCG
CACGGCATCGGGACGCTCGACGGTAAAGAGGCGGTCTGACAGACGGACTTTGATTTCCGGC
GGCGTGTTCGGCGGAAACCAATGAATCACGCCCTTAACTTTACGGCCTTCTGGATTTTT
GCCCAAGGTGTCTGGTTCGATGCTGCATTTGAGTTCAACCACATTGCCTGCTTCGTCTTT
GACGACTTCATCGCACTTGATGACATAGCCGTGGCGCAAGCGTACTTCGCCCGCGGGAAT
CAGGCGTTTGAAGCCTTTGGGCGGATTTTCGGCAAAGTCGTCGGCTTCAATATAGATGGT
TTGGGAAATAGGTACTTCGCGCTCGCCATTTCCTCGTGGTTCCGATGGAACGCGGCACG
GCGGCTTTGGGTTCTGCCGTTTCAAAGTTGGTCAGGGTCACTTTGAGCGGGTTCAACAC
CGCCATCAGGCGTGGGCGGAATTTCCAACCTCTTCGCGAATCGCGCCTTCCAACACGCT
CATATCGACGATGTTTTAGATTGGAAATACCGGCGCGTTTGGCAAACAGGCGCAGCCC
TTCGGGCGGTGTAGCCGCTCGGCGCATACCGGAAATGGTCCGCATACGCGGATCGTCCCA
GCCGGAACGTGTTTTCCACAACCACTGATTCATTTCCGTTTGGAGGTAATGGTGTA
CAAAAGCTCCAAACGGGAAACTCGTATTGGCGCGGACGGGTGGCATGCGGCGCAGGAAT
GTGTCCAAACACACAGTCGTACAGCGGACGGTGTGCTTCGAATTCGAGCGTACACAAGGA
ATGCGTGATGCCTTCGATGGCATCGGAGATGCAATGCGTGTAGTCGTACATCGGGTAGAT
ACACCATTTGTCCGCGGTGTGGTGTGATGGCGCGGCGGATGCGGTAGATGACGGGTC
GCGCATATTGATGTTGCCCGATGCCATGTCGATTTTCAGGCGCAGGGTTTTGCTGCCGTC
GGGGAACTCGCCCTTTTTCATGCGTGTGAACAGGTGAGGTTTTCTTCGACGCTGCCGTC
GCGGTAAGGGCTGTTTTACCCGCTTCGGTCAGCGTACCGCGGTATTCGCGCATTTCTTC
GGCGTCAAATCATCGACATACGCTTTGCCGTCTTAAATCAAACCGACGGCGTAGTCATA
AAGCTGTGCGAAATAGTTGGAAGCGAAACGCGGCTCGCCCCCAATGGAACCGAGCCA
CTCGACATCTTCTTGATGGCGTTGACGTATTCGTGCTTTCTTTTTCGGGGTTGGTATC
GTCAAACCGCAGGTTGCACAAGCCGTCTGTAATATACGCGAAACCGAAGTTCAAGGCAGAT
GGATTTGGCGTGTCCGATGTGCAGGTAGCCGTTGGGTTCCGGCGGGAACGGGTTTGAC
AGCTGTATGTTTCCGCTTTCGAGGTCTTCTTCGATGATGGTGCAGATAAATGGTTGTC
CGCAAATTGGTCTTTATTGACATAGTTTTCTTTGAACAGATGGCTTCAGACGGCATGG
AATGATTCGATGCGCTGTGAAGCGGTTTGGGAATGTGTTTATTGTACCCGACTTGCGC
GCTTTGACATAGCGTTACAGCGGCATCGGCAATCAAGCATTCACCCCCGCTCTTTTCAG
CATCTTCTGCATCGCGGTATCGGGCAGCCGGTCGGTAAATACTTTGTCAAACGCCGTAAT
GTCGCCGAGCCTGACAGCGCGTTGCTGCGGAATTTACTGTGGTCCACGCCGAGGAAGCG
GACGCGCGCATTTGGCAATCATCGCCTGCATCAGCTGACTTCTTTGTAGTCGTCTCCAA
AAGCGAACCGTCCGCTTTCCACGCCGTGCGTACTCATCAGCGCATATCGACTTTGAACTG
GTGATAAAATCGCGGTTGCCACGCGGTAATACCGCCGTCCAAAGGGCGGACGACTCC
GGAAAGTATGATGACCGTATAATCCGTCCGCGCCGAAGCAATCGAGGCGCGGTGGATATT
GTTGGTAATCACCTCAGGCTGCCGCGCCGCTGACCAGTCCGACACCACGGCCTCCAT
CGTCGTGCCGATACTGACAAACAGCGACGAACCGTCGGGGATGTGTTCCGCAATCAGCCG
GGCAATGGCGTTTTTTTCTGTTTTGACACCGGGTTTGGCGGTCCGCGGGCAGGCCCTCCGG
CAAGTTTCCGCCGAAGATGCGCGCCGCTGATGGCGTTTCAGGCTCGCGACCTCCTCCAA
CTCGCGGATGTCGCGCGGTATCGTCTGCGGGTAAAGTCCCAATGCGGCGGCAAGCTCGTC
CACCAGACATAAATCATGTCGCGCGGACAAAGGCTTAAATCTCTCCGTGCTTTGGATTTT
CGGCTTCATCGTTTTCTGCCTCCTTGATCGGGATGCCGATTTTACCGCGTTCAACCCAA
AGCGGAAACACCAACATCAGAAACGGGGCGGCGATATTGACCACCACGCCGAAGCTGAC
CGCTACCGGCACGACTTCCAAACCGCCGACCCCTGAATCAGGGCAATGTAAATCCAT
ACTGGTGCACCCGCCAACCCCGCGCATCTGGAACACGCTTCATCAGCAGCGGGAT
AAATGCCAGTGCAAACAGTCTCTGTGCCAAATCGTTCAGCAGCATGATGCTGCCCCATAC
CGCGCCGTAAGCCTCGGTTCATGACCAACCCGAGAGGGAATACCAACCGAAGCCGGAAGC
CATCGCAAAACCTTTCTGTCACGACACACCGTCTGTGTCGATCGGGCAACAGCAGCCGCGC
CGAAAGAGATGAAAGCATAAACCAGACCGACAACCGAATACCCCTGCGGTTGACCAAAAC
CTGCCGAACGATACGCCGCTGCTTTGAGCTGTACGCCGATGAGGAACACAGCAGCAT
CAGACAATACATGCCGCGCTTTACAGACGGCATCCAAATATCGCGCATCAGTTTGCCGAA
TGCAAAATCCGAGCAGCAGCATCCGAGCTGCCCCCACTGCCCCGACAGCCGACCGAAAC
GCCCTTCCCTTTCCCTTTATCCGCCACGGGAATAACTTTCCCAACACTGCCAAAGCAAG
CAGGTTCCGCCCCGACCGTACAAACAAACAGCCACAGAACCCTCAACGCCATATCGTCCAA
CCGCGAAACCCAAATCCTCCACGCGGACAAACGAGACGCCGATCAGCAGCAGCACAGCATA
CACCAGACCGATAGCACCTTATCCAAAGCGGGCAGGTAAGGCTTGGGCACACGGATAAA
AAATCCGGCAAACATCGGTATCAATACCGAAAGCAACGTATCAGGCTGTCCATCTACTG
CTCTCCTTTATTGCCGCATGATATGTGCGGTTTAAAAATTGCCGTCTGAAAATTGCAGAT
ACCCGCATCCATATTTACAGACGGCATCAGGTTGCCATTAAAAAACCGCCTGAAGGTTCA
GGCGGCTTATCCGCTCCGGCATTCAATCTTCCAAAGTCTTTTCCAAACGCTCCATACAGT
TGCCCAAATGGCGGCGCAGGATTTTGACCACGCGGTTGCGCCTGCCCGCCAGCAGCAGGT
CGAGGATTTCCGGGTTTCCGGAATGCGTATGCGTATTTGATGGCGTGTTTTTCTCGCGAT
GCACGCCCGCCACGGCGACAATCAGGGAAGACCGCGCGCACAGCGTATTCATAATGTCGA
ACAGCACATCGTTGCCACACAGGCGCGCAGTTCGACGTGGAAGGCATTGGACAGGCGGT
TCCAGCGACGCGCGTCCGCCCTGCCGAGGCTCTTCTTCGCGCGGTATCATCGCATAAA
GCGGCTTGAGGCGCGTTTTCCAATCCGGCAAATCTGCGAGGATATTCAAAATCATCGTCT
CCATTTTCGATGCGCGCATTTGAACACATCTTCGATTTCTTTCAAATCGGGAACGTGGACGA
ACGCGCCCTGTGGTGGTGGCAATCGACAATCTTGTGTCGCGCCAAAGCGACAGCGCGC
CGCGGACGGTGTGCGCGAACACACCATCTGACGGCAAAGTTCCGATTCGGTCAGCTTTT
TGCCGGGCGAGCAGCAGCTGATCGGTAATGCCGTCCAAATCAGGGCGTAAACACGGAACA
GCTCCGAATCGTGCCGCTCTTCGAGAATCAGGGAAGACGTGGTCCGCGCATGGATAATGT
CGTCGTTTTCAAAGTTCATGATGTTTTCCGATTTTTTACGCTTTCAAATTTTTTAAGATG

Appendix A

-362-

TTTTAAGGCGGCTGTGTTTCAAATCGTGTGAGGAATTAAAGCATTGCACAAATTTATT
TTATAGTGGATTAAACAAAATCAGGACAAGGCGACGAAGCCGACAGTACAAAATAGTA
CGGAACCGATTCTTGGTCTTGGTCTTACGACCTTAGAGAATCGTTCTCTTTGAGCCAAGGCG
AGGCAACGCGGTACTGTTTGTGTTAATCCACTATAATTCAATAAATTAATATATGGCTT
AAAATAACGGGATCTCGCTCCCGCCCCCGCAGAAGCAGGCGGATATCATTTTAAAA
CGCGGCATTTAAATTTGACCGAAAATTGTTGACAATCCGGAATCAAGTCTGCACAATAC
CCCGACAAGTCCAAGTATTATAAAGGCTGAATAAAGAGGAAACAGCAGGCGAGATATATTC
GGGAGGTGCAGTCCGAATATATCTGCTTTTATGCGCCTCCGGATTGCTGCCGCACCT
TTCCTTTCAGACGGTATCAGCCGTTTCCCCATAATGCCGCCGATGCCATTTATCTGCC
CCGGCAATTTCAAACCTGTGGGTAACTTTGCGCTTTGCCCAACATAATCGAAGCCGAA
CAGTATTTTTCGGCAGACATCTGAACGGCGCGCTCAATGGCCGATTCTTCAAATCATGC
CCGAATACTTTGAAATGGATGTGGATTTCGGTAAACACGCGCGCGCATCGTCCGCCCGT
TTCGCCGTAACCGTCGACGGCAGTCAGTCACTTTCTGACGCTGTTTTCGGCAATCATC
ACCACATCGATGCTCGAACAGCCCGCCACGCCAACAGCAGCATTTCCAAAGGGCTGGG
CCGCGCTTAGCCTTACCTTCTGCCGCCGACCCCTCCATAACGACGCTGTGCCCGCCTTCC
GTCGTGCCGACAAAACACATCCCGTCTATCCATTTTGATGTAACCTGCATGGTGTCTATTC
CTGAAAATAGCGTTTCAAACCGCTTTCATATGGCGTTATTGTAACAATTTCAAGCGGCT
TATGCAGAAATATGGACAAAACGGCAAAAAACACTTGAAAACCGATTACGGTTTGGCT
GCCTGGCCGTTGATCTGCACCGATTGAGTTTTCAGCGTATAGGTTTTCGCCGTCGTCCGTA
TAGCCGATTGTGCGCGAATATTGTTAGGGACGGTGCAGAAATACATTACCGCATCG
TCGCCGCGCGCGACCCGATATTTGACGACTTCGGTTTCCACGCGCGCTATGCTGTATTTT
CCTGTACCCGCTTATTCAAACCGCCGACGGAATAAAGTTTTCGCCGTTGGTGATTTC
AGCCCCGGGGGAGTTTCGCGTCATTGCGGCCAACTGCCAGGCAAGCGTGAACAAATCC
ATAGCCTTGGGGCTTTGCTCGGTTTTCGCTCTCGCCGCTTTCGCCGTAAGTTACGCTGCCG
TCGGCGAATTTGGCTTCCGCATACAGTTTCCCCCTGCGTATGCTCTATAGTAGGTAGGG
TGCAGGTTATTCGCGAACCCGTAACCGCGGACTCGAAACGGATATTGTATAGCGGCACT
TTAATCGTCGAACGATTGTTGTAAGCATTGCCGCTGCGTTCAAATGTCTATCGTGGCGGGA
ATGCCGTAGCTGCCGGAATAGTGCAGCACGGCGGATTGGGGCAGCCCTGCCGCATACGCG
CACGGCAGGGCGCGCGGACAAAATGGCGCGGAAAATATATTTTAAAGTCTTCATCATT
TGCTCCCGCCCGTTTACGCCGTGAGAAAACGGCGCGCATCGGCGTTTTCGGAATTTCTG
ACGCGGTTTCCCTCAATAATCAGCGCGCCGCGCGGCAAAATCGGCAACGGCTTTCGGATAA
AGTTTATGCTCGACAGCCAAAACCGTGCAGGCAATATCGTCTGCCGTATCGCGTTCGAGT
ATCGGCACAACCCCTTGCAGTACAATCGGGCCGCAATCCAGTTCGGCAGTAACGAAATGG
ATGGTGCAGCGCGGCAACCGCGGACGCCCGCTCCAAAGCGCGTTTCGTGCGTATGAAGTCCG
GTAAACGAGGGAAGGATGGACGGGTGAATGTTTCATCAGCCTGCCTTCGTAACGGCGCAA
AACTCGGGGTCAGAAATCCGCATAAAACCTGCCAAAACCAAGTCGGGTTGATATGCG
TCGATTTCTCATCATGCGCGTATCGAAGGCAAGCCGGGATGTAAAGTTTATGATT
AGGCTATCGGTCGGGATGCCGCGTTTCGGCGCCCATTGCAAACCGGCGAGCCGTTTCGCTG
TTGCTCAACACGGCGGCAATGCGGACGTTGTGAATGGCGCGATTGACGATTGCCTGCATA
TTGCTGCCGCGTCCAGAAATCAGGATGACGATGTTTTTCATAATGGTGCGCTTTTGAAG
GGATGCCGTCTGAAACCTGTGTTTGGTGGTTTCAGACGGCATTTGCCGTAAAAATGCCGGA
AAACCTGTTTCGGGCATGATTCGGACTTAATTTACTTTTTTGATGTCGACTTGAGCCGG
CTGCTTGGCGGGCGCGTTTTTCGGGTGCGCGGATTTCGACAGTTTCACATCAAATACCAA
AGTGGCGTTTCGGCGGATTTTTCGCGCCGACCCCTGTTTCGGGTAGGCAAGGTTGGACGG
GATGTAGAACGTGGCTTCGCCGCTTCTTTCAGAAAGCTGTACGCCCTTCGGTCCAAACCCGG
AATCACTTGGCTCAAAGGGAAGGTGACCGGGCGCGGTTGGCTTTGCTGCTGTCGAATAC
CGTACCGTCAATCAGGCGGCCCTTCGTATTCACGGTAACGATGTCGCTTTTGGTCCGCTG
TTTGCCCTTCGCCCTGTTTGGTGATTGTTGATTGTCAGGCGGGAAGGTCAGTGGCTTTCACGCC
GTCTTTGGCGGCATTTCTTTCAGAAAGGCTTCGCCCTTTTCTTTATTGGCCTTCGCGTC
CGCCTTGTGTTTTCTACGGCTTTAGCCTGTTGTTCTGAGGAATTTTCATCATGACTTC
CTGAGCCTGCTCTTCGGTCAATTTGATTTCTTTGCCGTACATACACTGCCCTGCATGGCTTC
GGTAAAGACTTTCAAATCGATTTCGCGCCCTGTTCTTTCATTGCTTCAGGGAGCGTCC
GATGTCCACGCCCATCGCATAGCTTGCTGCTGCATCGTGTGCCGATCGAAGAGGTGTC
GCCCTGCCGCGGAAGAAGCGGCGGAGGTTTCGGATGCAGATGCGGGGCGCGCTTTTTC
GCCGAGGCGGAAAGTGCAAAAGCGGCGGAAAGGTCAGTGCCTGATTTTGAATAAGGT
GTTTCATGATGGATCTTCGTGTCGATAAGGTGGAAGAACGGGATTATAGCCGAGTTTGA
ATGTTTCAACACACAGGATGACACATAAAGCGTCAATCGTGTGTTGCCCTGTTTGGAAAG
GGATTGAACCTTCAAATAAAGTTTGTATTCTACCGCCCGAGGACAGATGTCGAAGTG
GCGGGGTTCAACCGATAAGGAAATTTAATCAAATAGAATCAAGCCTGTTTAAATTTTGT
AAATGCCGCATTTTCAGACGGCATTTTATGCTTGCCTTCCATGCCGTGATGTTTCGATGGC
AAAACCGCTTCGGCGGTAGGCGGTAAGCGTTTCGCGCGCGTTCGGCGAGCTCTTCAAAGCT
GTTGCCGACGATTTCAAAACCGCGCGCGGGAAGACCGGAGCGGTGTTCCAAAACCGTC
GGACAGGTTCAAACCGGTATGCCCTTCGGGAATTTCGGGCGAGATTGCCGCCGAGGCAAG
CAGGACGGATGGTTCAGACGGCATGGCTTCTCCGTTTCCCAAATTTTCGTGCGGAATGAA
ACTCTCGGCTCGTATTGCGCAAGCATTTTGTCCAAATTCCTGAAGTGCAGGCAAGCAATC
GGACCACACAGTATCCTGCCGCGTCCCGAATCGCACGGGCAATCAGGCGGCGAGGTGAA
AATCGGAACCTGGGCAACGTGCGTGTAAAGGTGGCTTTCGGCATATTGTTTGAACATTT
GGCAGGATAATGCCGTCTGAAAGGCTTCAGACGGCATTTGGGAAAATTAAGATTCCGC
AGATAGTTTCAGCAGCAAGGGAACGGGACGGCGGTCGACCTTTTTCCGACCCGATTTC
CACGCCGTACCCGCGATGTCAAGGTGTGCCCATGGATAGTCTTCGTAAGTAGGATAGG
AATGTTGCGCGGTAATCTGTGCCCGCGCGGCGTGCAGTGTGGAATGTCGGCAAAG
TTGGATTTGAGTTGCTCTTTGTAGGTCTCAAAGAGCGGCAAGTTGCCATGCTTTGTCTGCC
ACGTTGTAGAAGCGGCAAGCAGGCTGTGATCAAATCCTGATTGTTGCCCATCACGCCGC
TGACATCGTGCCCCAAGGCAACAATACACGCGCCGTCAGGGTGGCGACGTCGATGACGG
CTTTGGGTTTGAAGTGTCTCGCGTAAGTGAGCGGTCGCACAAAATCAGACGGCCTTCGG

Appendix A

-363-

CATCGGTGTTCAACACTTCGATGGTCAGCCCTTTCATACTTTTCACGACATCGCCCGGTT
TGTTTGGCCGCGCGGAAGGCATATTTTCACAAGTGGCGACGACGGCAATCAGGTTAATCG
GCAGTTGCAGTTTGACGGCGGCGCAGAAGGTGCTGATGACGGTTGCGGCTCCGCACATAT
CAAACCTTCATTTTCGTCATGTTTCAGGCGGGCTTGAGGGAGATGCGCGCGGTGTCGAAGG
TAATGCCCTTTGCGGACCAATACCACAGGCGCGGCTTCTTTGTCGGCTGCACCGAAATAGC
TCAGTTTCGACCAATAGGGGGCTTCCGCGCTGCCCTTTGGCGACCGACCAAAACGAACCCA
TGTTTTCTTTGATGTAGTCTTTTTTCGATGATTTTGCGGTGCGCGCCAGTTTTTCGGCTT
CGGCTTTGGCGGTGCGCGCTAAAAATTCGGGCGTGCAATTCGTTGGGCGCGGCTTGCCCA
AGTCGCGGCGAGAGGCTTTGTCCGTAAACTTGCGCTTCGGCGACGCGCAAGGCTTCTTTGA
CGGCGGCTTCGTGCGCGGTATGGAACACGGCAGTTCAAATTTGGCGGGCTTGGCTTCTT
TTTTGTAGCGGTGCAACGGTAGGCGGCATTGCCGAACGCAATCGCAAACGCTTCGGCAA
CGGCTGCAGCCTGCGCTTCTTCAAAGACGTGAACGTCCACATTGACCGTTTCTGATTTT
GCGCCCATTTGGCGGCTTCGGCGGCGGCTTGTTCATGCGGCGCGGCGGTGCTTTTCA
GACAGCATACGGCAACAGCCTGCAAAACCGTTGCCGTGTCGGGATTTTGTGTCGGCAAAAT
TTTGACCTTCTTCAAGCGAAGACAAAAGGCAAGGACGGTCGGGTGCTCAGTTGCGATG
CTTCGTTGACAGCAAAATACTGTGCGCCTGCCTGCTGTTCTCTGCAAGATTTTCGGTTTTG
TGCTAAATTCACGTTTTTATCTCTGATTGAGACGGTTGTCGGTAGTTTTTCGGACGGCCT
TTCGCTCAAAAGACCGTCTGAAGACGGCTGGCACGATTGTACCCCATTTGAAGACCGTC
TGAAACCTTGCGCGGACCAATCCGCTGCGCCGAACCGCTTACCGCCCCCTGACCGCGAT
TCTATGATTTATCAAAGAACTCATCAAAGAACTCTTTTTACCGCGTCGGCATTTTC
GTCGCTCTCTTTGGCGGTATTGGTCTCCACGACGCAATCAACCTGCTCGGCGGTGCGCC
GACGGGCGGTGTCGCCATCGATGCCGTGTTGGCATTGGTTCGGCTTCTGGGTTCATCGGTATG
ACGCGGCTTTTGGTGGTGTGACCGCATTTATCAGTACGTTGACCGTGTGACCCGCTAC
TGGCGGACAGCGCAATTCGGCTGCGCTATCCTGCGGATTGGCATTTGAAACAATGGATA
CGCCCGGTGATGCAGTTTGGCGTCCGCTTTCGCTTTTGGTTGCCGTTCATGCAGCTTTGG
GTGATACCGTGGGCGAGGCTACGACGCGCGAATACGCTGAAATCCTGAAGCAGAAGCAG
GAATTGCTTTTGGTGGGACGGCAGTTCAACAGTTTGGGCAAGCGCAACGGCAGGGTT
TATTTGTGCAAACTTCGATACCGAATCCGGCATCATGAAAAACCTGTTCTGCGCGAA
CAGGACAAAAACGGCGGCGACAACATCATCTTCGCCAAAGAGGTAACCTCTCGCTGAAC
GACAACAAACGACGCTCGAATTGCGCCACGGCTACCGTTACAGCGGCACGCCCGGACGC
GCCGACTACAATCAGGTTTCTTCCAAAACTCAACCTGATTATCAGCACACGCCCAAA
CTCATCGACCCGTTTCCACCGCGTACCATTCGACCGCCCACTGATTGGCAGCAGC
AACCCGCAACATCAGGCGGAATTGATGTGGCGCATCTCGCTGACCGTCAGCGTCTCTCTA
CTCTGCTGCTTGGCGTCCGCTTCTCTATTTCAACCCGCGCAGCGGACATACCTACAAT
ATCTTGATTGCCATCGGTTTGTTTTAAATTTACCAAAACGGGCTGACCCGCTTTTTGAA
GCCGTGGAAGACGGCAAAATCCATTTTGGCTCGGACTGCTGCCTATGCACATTATCATG
TTTGGCGTTGCACTCATCTGTTGCGCGTCCGAGTATGCCAGCCAGCCCTTCTGGCAG
GCGGTTGGCAAAAGTCTGACATTGAAAGCGGAAATGAACCTGATTTCAGTTACATCA
TCCGTCAAATGGCGGTTTACGCGCTTTCGCTTCTCGCTTGTACAGCT
TTTTTGAAATCCTGTACGAAACCGGCAACCTCGGCAAGGCACTACGGCATATGGGAAA
TGCTGGGCTACCCGCGCTCAAAATGCCCGCGCGCTACGAAGTATTCCCTTCGCCG
TCCTTATCGGCGGACTGGTCTCCCTCAGCCAGCTTGCCGCGGCGAGCGAATGACCGTCA
TCAAAGCCAGCGGCATGAGCACCAAAAGCTGCTGTTGATTCTGTGCGAGTTCCGTTTA
TTTTTGCTATTGCCACCGTCCGCGTCCGCAATGGGTTGCGCCCACTGAGCCAAAAG
CCGAAACATCAAAGCCGCGCATCAACGGCAAAATCAGCACCGGCAATACCGGCTTT
GGCTGAAAGAAAAAACAGCATTATCAATGTGCGCGAAATGTTGCCCGACCATACGCTTT
TGGGCATCAAATTTGGGCGCGCAACGATAAAACGAATTGGCAGAGGCAGTGAAGCCG
ATTCGCGCTTTTGAACAGCGACGGCAGTTGGCAGTTGAAAAACATCCGCGCGACGCG
TTGGCGAAGACAAAGTCGAGGTCTCTATTGCGGCTGAAGAAAACCTGGCCGATTTCGCTCA
AACGCAACCTGATGGACGATTGCTCGTCAAACCGACCAATGTCGCTCGGCGAATGA
CCACCTACATCCGCCACTTCAAAACACAGCCAAAACCCGAATCTACGCCATCGCAT
GGTGGCGCAAAATTGGTTTACCCCGCGCAGCCTGGGTGATGGCGCTCGTCGCCCTTGCCT
TTACCCCGCAAAACCCGCCACGCAATATGGGCTTAAACTCTTCGGCGGCATCTGTC
TCGGATTGCTGTTCCACCTTGCCGACGGCTCTTCGGGTTTACAGCCAACTCTACGGCA
TCCCGGCTTCCCTCGCGGCGCACTACCTACCATAGCCTTCGCTTGTGCGCGGTTGGC
TGATACGCAACAGGAAAAACGTTGAACCAATGCCGTCTGAACCTCTCTTACAGCGCAT
TTGTTTTTCATTGACACATTTCCACAGACAGATAGCGGTTCCCTATTACATTACCTGTCAT
AACAGTTCCATTTTGTAAACTAGTCTATGATAGCGGTACAAATATTGTTTACAATAT
TTAACGCAATCATTTGCAACCCGACAAAAGAAAAACAGAAAAAGGAACAAAGAGATGTT
AGAAGCCTATCGTAAAGCCGCGCGGAGCGCGCCGCTCGGCATTCCCGGCTTCCCTTT
GAACGCGCAGCAACCGCGGATTGGTTGAGCTGCTGAAAGCCCGCGCGCAGGCAAGG
CGAGTTCTTGGTCGAAGCTTGGCCACCGTGTTCGCGCGGTGTCGACGATGCGGCCAA
AGTCAAAGCCTCATTCCTGGCTGCCGTGCGGAAGGACGCGCTCAGCCGCTGATCTC
CCCCGAATATGCGACCGAATCTTAGGTACAATGCTCGGCGGTTACAATATTACGCGCTT
AATCGAATCTTTCGACGACGACAAACTCGGCTCCATTGCTGCCAAAGGCTTGAAACATAC
GCTTCTGATGTTTCGATTCTTCCACGACGTTCAAGAAAAAGCCGAAAAAGGCAACAAATA
CGCGCAAGAAAGTTTGCATCTTGGGCGAGATGCCGAATGTTGCGCTCAGCGCCAAAGT
TCCGAAAAAATCAACGTTACCGTTTCAAAGTTGACGGCAAAACCAATACAGACGACCT
CTCCCCCGCGCGGACGCGTGGAGTCGTCGCGATATTCGCTGCACGCGCTGGCCATGCT
GAAAAACCGCGCGACGGCATCACGCCGACAAACGGGCGAAGTCCGTTCCGATTAAAT
GTTGGAAGAACTCAAAGCCAAAGGCCATCCGTTGCTTACGTCGGCGACGTTGGTCGGTAC
TGGTTCTTCACGCAACCTCCGACCAACTCCGTCATTGGCATACGGCGAAGACATTCC
GTTCTGTCGCAACAAACGCTTCGGCGGCTGATGTTTGGGCGGCAAAATCGCGCCGATTTT
CTTCAATACCCAGAAAGATTCCGCGCGCTGCCGATTGAAGTCGATGTATCTGCTCTAAA
AATGGCGGATGTCGTCGATATCTGCCTTATGAAGGCAAAATCGTGAAAAACGGCGAGAC

Appendix A

-364-

TGTTGCCGAGTTTGAATTGAAATCACAAGTATTGCTGGACGAAGTGAAGCCGGCGGCGG
TATCAACCTGATTATCGGCGGAGGTCTGACCGCCAAAGCGCGCGAAGCCCTGAAACTGCC
TGCCCTCTACTGCATTCGGCTCGCGCAAGCGCCTGCGGAAAGCAAAGCCGGTTTACCTT
GGCGCAAAAAATGGTCGGCGCGCCTGCGGTCTGCCGAAGGACAAGGCGTGCGCCGGG
TACTTACTGCGAACC CGCTATGACGACGGTGGCTCGCAAGACACGACCGCCCGATGAC
CCGCGACGAGTTGAAAGACTTGGCTTGTTTGGGCTTCTCCGCCGATATGGTGATGCAGTC
TTTCTGCCACACCGCGCCTATCCGAAACCTGTCTGATGTAAAAACCCATAAAGAACTGCC
CGCCTTTATTTCCACCCGTGGCGGCGTGTACTGCGTCCGGGCGACGGCGTCATCCACTC
GTGGCTCAACCGCTGTGCTGCCGATACCGTCCGCGACCGGCGGCGACAGCCATACCCG
TTTCCCATCGGTATTTCTTCCCGCGCGCTCCGGCTTGGTTGCCTTTGCCGCGCAAC
GGGCGTAATGCCGCTCGATATGCCCGAGTCTGTATTGGTACGCTTCAGCGGCAAGTGCA
ACCGGGCGTAACCTGCGCGATTTGGTGAACGCCATCCCGCTGTACGCAATCAAACAAGG
TTTGCTGACCGTTGCCAAAGCCGTAAGAAAAACATCTTCTCCGGCCGATCCTCGAAAT
CGAAGGCGTGCCTGATTGAAAGTGGAACAGCCTTTGAATTGACCGACGATCCGCGCA
AGCTCCGCGCGCGGCTGTACCGTGAAGCTCAACAAAGAGCGGATTATCGAGTACATGAA
ATCCAACGTCGTGTGATGAAAAACATGATTGCCAACGGCTATCAAGACCCGCGCACTTT
GGAACGCGCATCAAAGCTATGGA AAAATGGCTGGCAAAATCCCGAGTTGCTCGAAGCGGA
TAAAGATGCCGAATACGCCCGCGTATTGAAATCAACATGGACGACATCAAAGAGCCGAT
TATCGCCTGCCCGAACGACCCCGGACGACGTGTGCTTCATGTCCGAACGCTCCGGCACCAA
AATCGACGAAGTATTCATCGGTTCGTGTATGACCAACATCGGCCACTTCCGCGCGCGCTC
CAAACTTTGGAAAGGCAAGGCGAGACACCCCGTCCGCTGTGGATTGCGCGCGCGCAAA
AATGGACGCGAAACAATTGTCCGACGAAGGACACTACGGCGTACTCGGACGTGCGCGCGC
GCGTATGGAATGCCGGTGTCTCTTATGTATGGGTAATCAGGCGCAAGTACGCGAAGG
TGCGACGCTTATGTCTCACTCCACCCGCAACTTCCCGAACCGTTTGGGTAAAAACACCTT
TGTTTACCTCGGTTCGGCGGAATTGGCAGCGATTGTCTCCAACTGGGTAAAAATCCCGAC
CGTTGAAGAATATCAAGCAATATCGGCATCATCAACGAACAGGGCGATAAAATCTACCG
CTATATGAACCTTCAACGAATCGACAGCTACAACGAAGTAGCCGAGACCGTGAACGTTA
ATCCCCGTCATCCGTATGAAGTAAGGATTGACCGCAATGCCGTCTGAACAACCTTCAGA
CGGCATTGCAACATTCCGCTAACCTTCTTCCGCAACGCTGCAATACGGCGTTTCACG
CCCCACATAAAGGAAACGACAGTGAACCTGAAAAACCGCCATTTTCTGAAACTTTTGA
CTTACCGCGGAAAGAAATCACCGCTACCTCGACCTTCCCGCGCAATTGAAAGCCGCCAA
AAAAGCAGGGCGCGAGATTGACGGATGAAAGGGAAAAACATCGCCCTGATTTTGA
AACCTCTACTCGGACGCGCTGCGCGTTTGAAGTCGCGCGCGCGATCAAGGCGCGGGAGT
GACTTATTGAGCCGTGCGCCAGCCAAATCGGGCATAAGGAAAGCATCAAAGACACCGC
CCGCGTGTGGGCGAGATGTACGATGCCATCGAATATCGCGGTTTCGGTCAGGAAGTTGT
TGAAGAAATTGGCGAAATACGCGGGCGTACCGGTGTCAACGGGCTGACCAACGAGTTCCA
TCCCACACAATGCTTGGCGACGCACTGACTATGCGCGAACACAGCGGCAAACTTTGAA
CCAAACCGCGTTTGCCTACGTGCGCGACGCGGTTTACAACATGGGCAATTCCTGTGTGAT
TTTAGGGGCAAAATTGGGGATGGACGTGCGTATCGGCGCACCGCAAGCCTGTGGCGGTC
TGAAGGCATTATTGCCGCGCACACGCGCGCGCCAAAGAACCGGCGCAAAATATACCTT
GACCGAAACCGCGCATGAAGCCGTGAAGAAATGTTGATTTTATTCATACCGATGTGTGGT
CAGCATGGGCGAGCCGAAAGAGTCTGGCAGGAACGCATCGATTGCTGAAAGATTACCG
CGTTACCGCCGAAGTATGGCGGCATCGGGCAATCCGCAAGTCAAATTCATGCACTGCCT
GCCCGCTTCCCAACACCGGAAACCAAGTCCGCGAATGGATTACGAAACCTTCGGGCT
GAACGGTGTGGAAGTTACAGAAGAAATATCGAAAGCCCCGCCAGCATCGTGTTCGATCA
GGCGGAAACCGGTATGCACACGATTAAAGCGGTAATGGTCGCGGCTCTGGCGGACTGACA
GAAGTGTGCTGTTTAAATTCATCCGCAACACAGATACCGTCTGAACACGATGTTTCAGAC
GGTATCCATATATAGTGGATTAAATTTAAACAGTACGGCGTTGCTCGCCTTGCCGTAC
TATTTGTAAGTGTCTGCGGCTTCGTGCGCTTGTCTGATTTTGTGTTAATCCACTATAAAAA
AAGTGCCTACACGATGTGTAGGTAGTCCGTTTGAACCAATCAGTTTGTCTTGGTCA
ACCAATTGTTGGCAGTAATCCAAGGCATCATGGCAGCAGTTGTGCGCGGACTTTTCA
ACTTGGTGGTTCGACATTGACAGCGCGCGGCGGAGTCATAGACGATAGTTGACATTACCC
TCTTGGATAAACATTTTTCGTATTCGCCGTTTGAATGCGTTTCAGGGCATTGCGCATG
GCTTCTTTGCTGGAAGCATTGACCACTTCAGGGCGGTAACGATTTCGCCGTACTCCGCA
TTGTTGGAATGGAGTAGTTTATATTGGCAATACCGCCTTCGAAATCAGGTCAACGATC
AGTTTCATTTCTGTGACGATTCGAAGTAAGCCATTTCAGGCGCGTAACCGGCTTCGGTC
AGGGTTTCAAAACCCGCTTGTATCAACTCGACACGCGCGCGCACAAATACGGCTTGTTCG
CCGAACAGATCGGTTTCGGTTTCTTCGCGGAAAGTGGTTTCAATCACACCGCCTTTGGTG
CCGCGTGTGGCAGCGCATAAGACAGGGCGATGTCTTTGGCTTTGCCGGAATTGTCTTGG
TAAACGGCAATCAGAGAAGGCACGCCCGCGCGCTTGTATTACTGCGTACGGTATGG
CCCGACCTTTGGGGGCAACCATTAATCACGTCCAAGTCGGCACGCGGAACGATTGTTG
TAGTGACGTTGAGCCGTGTGCAAAATGCCAGCGTTGCGCCTTCTTCAAATTTGGCTGTA
ACTTCGCGGTGATAGACGCGAGGCATGGTTTCGTACAGGCGAGCAGCAGCATACGACATCG
GCTTCTTTGGTTCGCTTCAGCAACGGTTTGTACGACATGACCGGCTGCTTCGGCTTTTTTC
CAAGAAGAACCTTGGCGGAGACCAATCACACGTTTACACCGCAATCTTTCAGGTTGGCG
GCATGGGCGATGACCTTGGCAACCGTAACCGATGATGGCAACGGTTTGCCTTTGATTAGG
GACAGATCGGCATCTTTATCGTAATAGACTTGCATTGATTTCCTTAAAGTAAATGGTT
GTGCAAGCCTTAAATGTTGAGCGGCTTCGACGCGGTTAAACAGAGTGTGCCGCTTAATC
GGCAACTTCATTTCATCAATACGATTTCACACGCTTCGGTTTTCGCGTCGACGGACTGGAC
GAAGGCTTGGAAATGCGCGCTGGCGTTATGTTCGTCAATAGCTGCTTGAGATTTCGAAT
TTCCACGAAAAACAAACGGTTTCGGTTTGGCGATTTCCTGATGGAGATCGTAGCTGATGTT
GCCCTCTCTGCGCGGCTGGCTTTGACAGTTCTTTAAACTGTGCTGCCAGTGTCTTCTGT
GTATTCCGGTTTTCAGCGTAACAGTGCAGCAATTTTAAATGTTCGACATAAATCTCTCTG
CCGTTTCGTTTTTCAGACGACATTCAAATACCGTGCCTGTGAAAGGTTACGGCGTTAAAT
TTTCAAATACGCTCACCGCGACCGATGCCGCGCGCCTGTGCGTACGGTTTCAAAT

Appendix A

-365-

TTGGGCGCGTCCGACCGTTTCCAAAAAGGAATCCAGCTTGTCTGTCGAGCCGGTAATTC
AATCGTATAGCTCGGGTCCGTTACGTCGATGATGTCGCCCGGTAGATTTCCGGTCAAGCG
TAAAAATTCGTCGCGGCTTTGCGCGGCGCACGGACTTTTACCAACATCAGTTCGCGGTT
GACAAAACGGCTTTTCATTCAAATCGACCACTTTAATCACTCAATCAATTTATTGAGTTG
CTTGGTAATTTGTTGATGACCTGCTCGTCGCCGTGGGTAACGATGGTCATCCGTGACAG
GGTTTTGTCTTCGGTCCGCGCAACCGCCAAGAATCGATATTGTAATCGCGTGCAGAGAA
CAAACCGACCCACGCGCTCATCGACCTGATTCGTTTCAATCAGAACAGATAAGATATG
TCGCATTTGTCTCTCCTTACGCCCTTCCGTCCGCACGCATATGCGGCGGAAGTACCATT
CGTCCAAACCTTTGCCGTTGCCGACCATGGGCATCACATTCGTCTTCTGGTCCGGTCAGGA
AGTCGATAAAACACAGCCTGTCTTTTGGTTCAATGCTTCCAACAACGCACCTTCCACAT
CAGACTTCTTGTCCACGCGGATACCGATATGGCCGTATGCCCTCGGCAAGTTTGACGAAAT
CGGGCAAGAATCGAAATAGGTTTCCGACTCTCGTCCGCCGTAATATATTTCTGCCACT
GGCGTACCATACCGAGATAACCGTTGTTACGCGTAATGACGTTAACCGGAATCCGATATT
GGAAACAGGTGGACAGCTCTTGGATGTTTCACTCGGATCGAGCCGTCGCCGGTGATACAGA
ATACGTCTTGATCCGGGGCGGCAAGTTTGCACCAATCGCATAAGGCAGACCCACGCCCA
TCGTACCCAAACCGCCGGAATTGAGCCATTGGCGCGGACGTTTCAAGGGGATAATATTGAG
CGGCAAAACATTTGATGCTGCCCTACATCCGATGTGATGATTGCCGAATTGCCGGTAATCT
CGGCAAGCTTCTGAATCACATATTGTGGCTTGATAATTTGCTGCCGTTGTCAAACCACA
AGCAATCTCGGGACGCCATTCTCTATGGTTTTCCACCATTTGCCCAAAGCATCTTCAG
ACGGCACGGACTCTGTTTTTCCACAGCGCAACCATCTCGGACAAAACGTTTTTCACGT
CGCCGACAATCGGAATGCCACCTTCACGCGTTTGGCGATGCTGGAAAGGATCGACATCGA
TATGGATAACCTTCTTCGCTTCTCGAAAAATTTGGACGGTACGGAACACACGGTCGT
CAAAACGCGCACCTACGGCAAGAACGACATCCGCATTCTGCATGGCAAGGTTTGCCTCGT
AAGTACCGTGCAATACCGAGCATACCGAGGAATTGGCGGTCGCCGGAAGGATAAGCGCCCA
AGCCCATCAGCGTACCCGTGCACGGAGCACCCGTCATTTCGACAAAATCGGGTCAGCTCTT
CAGAAGCATTACCAACACACCGCCGCGCCAAAATAGACGACCGGACGTTTGGCAGATG
CCAACATCTGCACGGCTTTTAACTGTACCGATATGTCCTTGAACAACCGGTTGATACG
AACGGATAAAAAATGTCTTCTGAGGATAGCTGAATTTGCCCATCGCTGCGTAACATCTT
TCGGGACATCAACCACCAGGGCCCGGTCGGCCGCTTGGCGCAATTTGGAACGCCTTT
TAATGGTTTTCCGCCAATCTATGATGTCCGTAACCGGAATTTGTGTTGACGCACGGAC
GGGTAATACCCACCGTATCAACTTCTTGGAACGCATCCGTACCAATCAGGGAATTGCCA
CCTGCCCGCTGATGACCACCATCGGAATCGAATCCGTATAGGCAGTAGCAATACCGGTCA
GTGCATTGGTAACGCCCGGGCGGATGTAACCAATGCCACGCCACCTTACCGCTGACGC
GCGCATACGCATCTGCCGCGTGTACTGCCGCTGCTCATGGCGGGTAAGAATGTGTTGA
ATTTATTGAGTTGGAAAAGGGCATCGTAGATTTGATAACCGCACCGCCGGGATAACCGA
AAACGTACTCGACACCTTCGGCTTGAGACTCTGCACTATGATTTGCGCGCCTGATAACT
GCATAACGACCTCTTTATACGGTTTCAAACCAATAGGGACAAACCGCTTTGCCACAGCA
CCTGTAATGCAATTCACCAAGCAGCGATTTAGGGTACGCGCATTTGGGGAAACACGGCAA
CAGACGGATTATCCAATCAATTGGAAGGAACACAGAGTTTGTGAAAAGAGTAGAAACG
ATAACGCAAAACGACAGTTCAATCAAGAAAAATCTTTCATCTTTAATATTTTTTGAAG
CAGAGAAATTATTGATTGATTTTAAAGAAATAAAATCAGGAGTACCTTTTTTGAAGATG
GAAATTGTTGACAGTTTGTGTAGGAGGGGCAGATGTGAAAACCCCTCTTCGATATCAAG
AATTGTAATAATTTACAGGTTTTCATCCCAATAAAGACTCGGGATATTGATTGAACCTGAT
TTTATTTTTGATATATCAAAAATATCCCAACCATACTTCTGAAAATGGCTCATTGCAC
CGACTGTATTGGACCGGATTGACAGAACCAAGGGCTAACAACGACTTAATATATTGA
TTGTATAGTGGATTAAACAAAATCAGGACAAGGCGACGAAGCTGCAGACAGTACAAATAG
TACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCCTTTGAGCTAAGG
CGAGGCAACGCGTACTGTTTAAATTTAATCCACTATATTAGTTTATCTATTTTCAAT
AAACAGCAATAGACAAAAAAATAACCGCTCTAAAAGCGGTTGTGGTGCCAGGGTCGGA
CTCGAACCGACACACCTTTCGGCGGGGGGATTTTGTAGTCCCTGCGCTACCAATTTGCC
ACCTGGGCTGGTGAAGAGTCTCATTATAATGGCTTTTGAATTTCTGTAAACCTTTTTT
TTGAAATTTATTTTATCTGTTTTTATTTTATTTTATTTTATTTTAAATAGAAATTTTATTT
TAATCTTACTGTTCTTCCGCTCCAAAGATTCTGTATGATTTCGGCAATTCCTGCCGTGCA
GACAACGTAAAAAATACTACATTAATCTGCCAACCGCTTAAGATGGAAATATTCAAA
TTCCGTACGAATCAGGTTTTGCTATTATTCTTGGGAGATTGTCATGTTTTCCGTACCGC
GTTCCTTTTTCGGGGCGTTTTCTGACTTGCCGCGCTTGCCGCTGCAACCTCAAGACA
ACAGTGGCGCGCAAGTCGCTTCTTCAAGTGCATCCGCGTCGGCTGCGGAAAATGCGGCAA
AGCCGCAACGCGCGGTACGGATATGCGTAAGGAAGACATCGGCGGCGATTTCACGCTGA
CCGACGCGGAAGGCAAGCCTTTCAACCTGAGCGATTGAAAGGCAAGGTCTGTATTCTGT
CTTTCGGCTTTACGCACTGTCGCGATGTCTGCCGACAGAGCTTTTGACGTACAGCGACA
CGTTGAAGCAGTTGGGCGGGCAGGCTAAGGACGTGAAAGTGGTGTTCTGTCAGCATCGATC
CGGAACGCGACACCGCTGAAATCATCGGCAAGTATGCCAAACAGTTCAATCCGGACTTTA
TCGGTCTGACGGCAACGGGCGGCCAAAACCTGCCGCTCATCAAGCAGCAATACCGCGTGG
TTTCTGCCAAAGTCAATCAAAAAGACGACAGCGAAAATTTTGGTCGACCACTCTCCG
GTGCGTATCTCATCGACAAAACCGGTGAGGTTGCCATTTTCTCGCTTACGGAAGCGAGC
CGGAAACGATTGCTGCCGATGTAAGGACCTGCTCTGATAAAAACCGTATGCCGCTGTCAC
CGTCCGCGCCTATTTCAGACGGCATATTGTTTCAACCGACAAAGGACATCCACACCATGC
AGGATAATGCTTTTACCATTCGCCCTTATCCAAGGGCGCATTTTGTAGGAGACGCTGCCG
TGCTTGCCGCTGCCGCGATTGTTCCGACTGAAGAGCCTGAAAAATCGCGCAAGCTGATTA
TCGGGACGAACCATGAAAACATCCGCCTTGTATTGTCCGCGCAACCGATGTGCCGACTT
ATGTCCGCTACGGCGCGGCGGACTTCGGCATTGCGGGCAAGAGCTGCTGATCGAACACG
GCGGACGGGGCTTTGAGGCTTTGGATTGGAGATTGCCAAGTGCCGATGATGGTTG
CTGTGCGTAAAGGTTTGATTACGAAGCAGCTTCGAACCCGGATGCCGCTGTAAGATTG
CCACAAAGTATCTGAAATCGCGGCTCATTTTCCGCGCAAGGGTGTCCATGTGGACA
TTATCAAATGTACGGCTCGATGGAATTCGCCGCGTGGTCCGCTTGAGCGATGCGATTG

Appendix A

-366-

TGGACTTGGTTTCGACGGGCAACACCTTGAAGGCAAACGGCTTGAAGCAGTCGAACACA
TCGTCGACATTTCCAGCCGCTTGGTGGTCAACAAGGCTGCTTTGAAAACGAAATACGCGC
TGCTGGAGCCGATTATTAGGCGTTTCGGCGCGCAGTGAAGGCGAAGTAAGCATCCATTT
GAATAAAGATGCGTTTTTCAGACGACCCCTATCCGTTCCCGCCGACAGGTGCTCTGAAAAA
TCACCGCGAGTAACTGTATAGGAGAAGTTAAATGGTTGCAAAAAATAAAAAATTCTCA
GATTCAACCCCTTTCCGTTTTGAATAACGGCGAGCGTCGGTTTTATGCTATTGTCTGACC
GACCTGAAAAAAGACAAAATCCTCTACATCGGCAAGGCTGCGGTAATCGTATCTTCGAG
CATGAATGGGTTGCTAGTCGTTTCAAGATCCAGTCTCCGCGCAGATTATCGATCGGAAA
CTCAAAGCCATCTCAAATGCAAGAACTCGGTGCTATATCATCAGTATCATCTGACT
GAAGTCGAAGCACTCGCCGCCGAATCTGCCTTAATTCATTTTGTTAAATCTGTCTTGGGT
AAAAAATCAAAAAATAAATTGCCGGGCATGGTCCGGGTGGTATTAGCGTAGAAGAACTA
GATCGCCGCTTTTGGATTCTCTTCTCTCCACTTAACGAGATTAACCCGACGGGCTGATT
CTCGCCATCAAAATCCACAATGCTTCGATTAGATACTGACGAAGAATTAGACTACCTT
TTCGACAAACCAAGACGATGCCAACCTCAAATCGCGTACGTTGGGCAACTGGGTTATCGGT
AAAGATGTTGCTTCAAAAGTGAAATACGTTATCGGCGTTTACACCGGTCTGCAAAACGCT
GTTGTGAGTGCATACGAAGTGGACGGTTTTGAAACAATGGTTGAGGAAACCAAAACGGT
AGAAAACAATCCCGTTACCGTTTCCGCACTACCTCTCGTAGCGAAGAGGTATTAGCCAAA
CTCGGTCTGCAACAAAAATGCCTGCCCGAATTGAAGTTGGTAGCGGGGAGAAAAAGCG
TATATCAGACCCAAAACAGAGACGAAACTGAACAGAGAATATTAGACGACCCCAAT
CCAAAAATAAAAAAGGAAAAACCAATCATGAAAAAATCAACACCAATCGCCCGATT
TCCAAGCCGACTCAAAGCCCTGCTGGCTTTTGAACCGCGCAAAACCCCGAAACCGAAC
GCATCGTCGCGGACATTTGCGCCGACGTGCAAAAGCGCGCGATGCGGCTTTGATTGAAT
ACACCAACAAATTCGATCAGACAAACGCTAAAAGCATCGATGATTAACTACGCAAG
CCGATTTGAACCGCGGCTTCGAGCGCATTCGGAACGACGTTTACAGCGGATTCGAGACCG
CCGCCCGCGGTGTCGAAAGCTACCAACGCAAAAAATGGAATCGTGGAGCTACACCG
ATGAAGACGGCAGCGTGTGGGACAACAAATCACACCGCTTGACCGCGTTCGGCATTCAG
TCCCGCGCGCAAGCGCGGTATCCGAGTTCCGTATCATGAACGCCATGCCCGCCACG
TCGCAGGTGTGAAAGAAATCATCATGGTCTGTCGCGACACCAAAAGGCGAACGCAACGACA
TCGTACTTGCCGCGCATACGTGCGCGGCTAACCAAGTCTTACCGTTCGCGCGCGCGC
AGGCGGTTGCCGCCCTCGCTACGGCACGGAAACCATCCCCAAGTCGATAAAATCACCG
GTCGGGCAACGCGCTTCGTCGCCGCCGCAACGCGCGTTCGCGGTGGTTCGGCATCG
ACATGGTGGCGGGCGCTGTGAATCCTGGTCATCGCCGACGGCAGACACCTGCCGATT
GGGTGGCGATGGATTGTTTCAGCCAGGCGCAACACGACGAAATGCCCCAAGCCATCTCA
TCGGCAGCTCGCAAGCGTATCTCGACGAAGTAGAAGCCGCTATGGACCGCTGATCGAAA
CTATGCCGCGCGCAGCATCATCGAAGCCTCGCTCGGCAACAGGGCGCGATGATACTCG
CCAAAGACTTGGACGAAGCCTGCGAAATCGCCAATACATTCCCCGAACACTTGAAGC
TGTCAGTCGAAAACCCGAGGAATGGGCGAAAAAATCCGCCACGCGGTGCGATTTCAT
TGGGACGCTACACCGCGGCAAGCCTCGGCGACTACTGCGCGGTCCAAACCATGTGTTGC
CCACCAGCCGAACCGCCGCTTTTCTCGCTTTGGGGACATATGATTTCAAAAAACGCT
CCAGCCTGATTAGGTTTCGGAACAGGGCGCGCAAAATTAGGCGAAACGCCAGCGTGC
TGGCACACGGCGAAAGCCTGACCGCCACGCGCGCGCAGAGTTCCGTATGAAATAAT
GCCGAACCGCGTACAGGCATATTCACCATTAAGGAACACGATGAAATCCGTCCGCT
CCTTCATCCGCGACGATACAAAGCTATGTCGGCATATCAGATTGCCGACGTTCCGCCCG
GCTTTGCCAAATCGATTTCGATGGAAGTCCCGTCCACCTTTTTCGGGACATGAAGCGC
TGTTGCAGGAATGGCAGGCACGGCTTGCCGCCGCGCCATCCATCTTTACCCCAATCCCT
CCGGCAGCGGTTTACAGGAAGCATACGTTTCGGCGTTTCGACATTCCCGACTGCGCCGACA
TCGGCGTGGGAACGGTTTCGGACGAAGTATACAGTTTATCAGGATGCTGACCGCCAAAC
CGGGCGGGCAATGTTGGCAGCGGCAACCCAGTTTCGTATGATACCGCCACACGCGCGC
TGACGGCATGGATTATGTCGGCGTTCCTGAACGGAGATTTACCTCAACCTGCCCG
CCGTCTCGAAGCGCTCAGGAACACCGCCCTGCCCTGACCTTTATCGCTTACCCCAACA
ACCCACCGCGGTATGCTTACCGCTGCCGAAATCGAAGCGCTCATCGAAGCTTCAGACG
GCATCGTCGTCGATGAAGCCTACGGCGCATTCACGGCGACAGCTTCTGCGCGAGG
CAGGCAGGATTCCCAACCTGATAGTCTTACGCACCTCAGCAAAATCGGTTTTCGCCGAC
TGCGTATCGGTTATGCGGCGAGGCTGCCCGAAGTCATCGGCGAAGTCAAAAAATCCTGC
CGCCCTACAATATGAACCAATTGAGCCTGACCACTGCCAACTCGCCCTGCGGCATACG
GCATTATCTTGCAACATCGACAGCCTGAAAACGAACGCGAAGGATGTTGCGCGAAT
TGGGCAAAATATGCCGTCTGAACACCTTTTCAAGTCAGGCAAACTTCATTACCATACGCG
TACCCGATGCCGATTTGTTGTTTGACACGCTCAAACAAAACCGCATCTTGTTAAAAAAC
TGCATGGCGCGCACCCGCTTTTGGAACTGCTGCGCATACCGTAGGACGCCCCGAC
AAAACGATGCCGTTCTCAACATCATTCGCCAACTTTACTGCCAACCAACGGATTTCTTAT
GAATTTGACTAAAACACAACGCCAACTGCACAATTTCTGACCTCGCCCAAGAAGCAGG
TTCGCTGTCCAAGCTCGCCAACTCTGCGGCTACCGTACCCCGTTCGCACTCTACAACT
CAAACAACGCTTGAAGAAGCAGGCAAGAGCCAGATGCACGCGGATCCGTCACGCT
GATGGCAAAATCGAAAAACACACCGGCAAAACCAAGGCTGGCTCGACAGAAAACACCG
CGAACGACTGTCCCGAAACCGCGCAGAAAGCAGCGAAGTGGCGAAACCCAAATTCG
CGAAACCGCATCTGCTGCGGCTGCGCGAGGTTACCGTCAACCGCAATACCTGCGAAAC
CCAAATCACCGTCTCATCAACCTCGACGGCAGCGGCAAAAGCAGGCTGGATACGGCGT
ACCTTCTCGAACACATGATCAAAATCGCCCGCCACGGCATGATTGACATCGACAT
CAGCTGCAAAAGGCGACCTGCACATCGACGACACCACACCGCCGAAGACATCGGCATCAC
ACTCGGACAAGCAATCCGCGAGGCACTCGGCGCAAAAAAGGCATCCGCGGTACGGACA
TTCTACGTCCGCTCGACGAAGCCTCAGCGCGTCTGTCATCAGCTTTCCGGCGCGCC
CGGACTCGTGAACAACTTACCGCGCACTAATCGGACGTTTCGATGTCGATTT
GTTTGAAGAATTTTTCACGGCATCGTCAACCACAGTATGATGACCTGCACATCGACAA
CCTCAGCGGCAAAACGCCACCATCAGGCGGAACCGTATTCAAAGCCTTCGGGCGCGC
CCTGCGTATGGCAGTCGAACACGACCCGCGCATGGCAGGACAGACCCCTCGACCAAGG

-367-

ACGCTGACC GCATAAAAAACCATACCGTCTGAAACACCCG CAGGCTTTT CAGACGGTAT
CGGAACAGATAAGATTACATCTACATCAACAACGAAAGGATTAACATCATGTCCGCGAA
ACGAATTACGCACAAATTCGGTGGATAGGCTTAGGCCAAATGGGTCTGCCTATGTTAACGC
GGCTCTTGGACGGCGGCATCGAAGTCGGCGTATACAACCGCTCGCCCCGACAAAACCTGCC
CCATCTTCGCCCAAAGGCGCAAAAGTTTACGGCAACACCGCCGAACCTCGTCCGCGACTATC
CCGTCATTTTCTGTATGGTTTCCGATATGCCCGCTGTGCGACATCTGTGAACCGGATGCC
CGACGGATTTCGCCGCAAAATCATCTGTAACATGAGCACCTTCCCCGACCGGAAAAAC
TCGCCGCTCAAAGCATCTGTGCAAGCCGACGGCGGACAGTTTGGCGAAGCACCCGTTTCG
GATCGGTTCGGGCCCCGCCAACCGGCACGCTGCTGATTCTGTTTCGGCGGCAGGAACCG
TTTTAAACCCCGCTGCAAAAATATTTTCCCTCGTGCAGAAAAACCTTCATTTCGCCG
ATGTCGCCGAAAGGTTTCGGCGCAAACTCGTCTTGAACCTGCTCTTGGCGCAATTTTCGCCG
AAGCGTACACGGAAGCGATGCTGATGGCGCGGACGTTCCGCATCGATACCGCACACCATCG
TCGAAGCCATCGCGCGCTCGGCATAGGACTCGCCATGTTTCAAACCAAAAAATCCCTGT
GGGCAAAACCGCAATTTCCGCGCCGCTTCGCCCTCAAACACGCTTCAAAGACCTCAACC
TCGCCGTCAAAGAGCTGTGAACAGGACGGCAACACCTGCCCGCTGCAAAACGTTGCTGT
CCAGCTACCGCAAAAGCAGTGAAGCCGGCTACGGCGAAGACGAGCTTTCGGCGTTTACC
TGAAACTGGCAGAACACTGATTGCCTTTTCCAACACAATGCCGTCTGAACATATTTTCAG
ACGGCATTTTATCACCCACGCTTAAAACTAGTCCCGATTATGACTATATAGTGAATTAA
ACAAAATCAGGACAAGCGACGAGCCGACAGTACAATAGTACGGAACCGGATTA
CTTGGTGCTTCAGCACTTACGAGATCGTTGTTTTCGAGTAAGCGCAGGCAACGCGCTTA
CTGGTTTTTGTTAATCCATATAATCCGCACAAATTTAGTCAATATCAAGAACCAATTATG
AACCACCTCGACCAACTTGGCACCCCGTATCAACCTGATTTGCAATGTCTTCGACAAATGG
ATCGGCGACGAGGATTCTGAATTACAACCTCTTTGCCGTACTTTATACCTGGCAACCGAA
GGCAGCCGACGCAAAAGCATATCGCGCAAAAGTGGAGCCTGCCCAAACAGACCGTTTCA
GGCGTATCGAAACACCTTCGCCGCAAGGTTGATTGAATGGCAGGAAGCGCAACGAGAC
CGCGCGCAACGGTTCTGTGCTGTGACGCAAAACGAGCAAGCTATGCGCACCTTTAAAC
GAAAGCGCGCAGGAATTTCAGCGACAAAGTATTTGCCACATTTCGGCGACAAGCGCACAACT
CGGCTGTTTTGCCGATTTTGGATGACTGGCTGGTGAAGTGTGAAAAACAATCTCGGAAAT
AAAAAATAGGGGGGCAATATGTGAAATGTGTGAACACATGCCCCAACCCACCGCA
GCGATTGATTGGCACATTTTCCCTGGTCGGACTGGAAAACCTTTTGATGCTGGTGATCC
GGTGTTTGGCGCGCGCGCGATCAATGCCGTGATTTCGGGGGAGGTGTGCGACGGCTTGTCT
GTACGCTTTGGTTGTGCTTTTGATGTGGCTGGTTCGGTTCGGTTCGGCGGATTTGCCGATC
GCGACGTTTTCGCGGATTTATACCGAAATCGCGCTGCCGGTGTGTTTGAACACGCGCA
GCGACAAAGTCCCGCATTCGCCGCGTAACTCGCGGGTTGCCCTGTTCGGCTGAGTTTGTGAG
CTTTTTTGAAGAACACCTTCGGATTGCCGCGACATCCGTCGATATCCATTTTCGGCGCGT
CATATGCTGCTGTGTTGCTGGAATTTTGGTTCGGCTGCGCGTTCGGCGTGGGCATATCGCTT
GTTTTTATGGCTTTTGGCACGTTTTCGCCCATCAGCGAAACCTGTATTTTCGCCCTGAA
CAACAGCTTTGAACGCGACACCAACTTTATTCGAAAAGCGACCGCGGACGCTGTACCGC
CCATTACGAGTCTGTTTCGCGCGCTTCGCTGTGCTGATTTTCCAACCGCAAGCTTTCGGTAT
TCTCTGCGTTCGGCACGGCGATGGGTATTTTGTTCGGCTTTGCTTTTGTGATGATGACGCT
CAAAGGCTACAGCAGCGCGGGCGATGTCTATTCGTTCCGTCGACATATCTGTGGATGTTTTC
CTAGATTTCGACGACGCTGCGCGCATGTGTTGCAACAATTTCAATTTGAAAGACATCGG
ACAACGATAGAGTGGTCGGAACGGAACATCAAAGCCGGAACCTTGAAAAATGCCGTCTGA
ACACGCTTCAGACGCGCAATTTCCATCCGTTTCGGCAACATACATCACTCCGCCCGCGGTT
GACAAGTTTGGCAACAACCTTTTCAACAGAAGTTTCGGCTGCAAAACCAATGCGCTGGAT
CAGGCTTTGCTTCTCTGATTTTCACTTCGATACCTGTTGTTTTCAAACGCTTTCAA
CAACAAATCATCATGTTGTCGAAATCTCGTCAATCAAGTTTCAACGCCAACGCTTTCGCCAC
GAACCAATGCTCGCCGTTGCCACTTCTCTCAATATCCAAATGAGGGCGGTTCTCGCTGAC
AAACTGCTTGAACAATCATGCGTTTCTCCAGTTCCTGTTCGGAATTTCTGTTTCGCTT
TTCGCTATTTTCACCCATAAAAGTAACCGTTCGCTTAAATTCGCCCGCGCTCATCACATC
CACATCAATATCATGTTTTTTTCAACAGCGCGGGATATTCGGTATCTTCGCCACACACAC
CACCAGAACCGACAATCGCAACCGGACGGAAGCAATTTTATCCGCACACACGCGCATAT
ATAACCGCGCTCGCCGCCACCTTATCGACGGCGACGGTCAGCGGAATATTGCGTTCGCG
CAAACGCCCTAAGCTGCGAAGCGCGCAACCGTAAACCGTGAACACCGCCCGGCGATTTTC
CAATCTGAGCAGAACCTCATCTTCAGGCTTGGCAATCAAAGACCGCCGTAATCTCATG
ACGCAAGGATTCTACGGCGTGTGCATACAAATCGCCGTCGAAATTCACACAAAAAGCGG
GGATTTTTCGGTTTTCGCGAGATTTCTCCCACTTCCTTCAAACGCTTTTCTCTGCTGTT
GGCTTTCGCGCTTTTCGCTTTTCTTTCTTCTTTCTGATGTTTTCGCTTCTTCGCGCT
TAAAGAAATGCTTCAACAGATTCGCGCTGTTTTTATAGTTTTCGAAAAATTCGTCAG
TAGCAGACTTCGCGCTTTCGACTGTTTCTTACTCTGTACGATAGCCACACAAATACGGCG
AATTGCGCGCAACCGGTAAGCACTTCGAGCAGGAAAAATCCGTAATTCAGTAAATTTCT
TTTTCACATTGATTGATTTTCTCTTGTTCAGGATGAACATGCAATATTGTCATCATC
CGTCCGACAGATAAAAAAATAACCGCTTGGAGCGGCATTGTCATTTTCAGCTTGGTGCCC
GGAGCCGGAATCGAACCGGCACGGGATGTTTATGTCGCGACGGATTTTAAAGTCGGTTGTGT
CTACATTTTACCACACCGGCGCATTTGTGAAGGTGGAGGCGGGGCGGGCGGATTTTAAAC
GGCTGTATGAAGATTGCACTCCTCATAGCATAAACACTCTGCCACCCCGCCATAGTACG
ATAATTGAGGCGGAGATCGGAATCGAACCGCGCTGAAGCAGGATTTGCAATCCGTCGATTA
CCACTTTGCTATCTGCCCTAAAACTGGCTTATCTAATAAAACTTGGAGCGGGAACAGT
CTGAACTCGCGACCTCAACCTTTGGCAAGGTTGCGCTTACCACCTGAGCTATTCCCGCG
CGTTCAACATATCTCGTTTTTGGAGCGGGAACAGAGTCTGCAACTCGCGACCTCAACCTT
GGCAAGGTTGCGCTCTACCAACTGAGCTATTCGCGGTTGATGTTTGAATAAAACTT
GGAGCGGGAACAGCTCTGAACCTCGCACCTCAACCTTGGCAAGGTTGCGCTTACCAA
CTGAGCTATTTCCGCAATGATTGCGGAAGATGAATTTTGGAGCGGGAACGAGCTCTG
GAACTCGCGACCTCAACCTTTGGCAAGGTTGCGCTTACCACCTGAGCTATTCCCGCGCA
TTTTCATTCTCGGATATCGAAGAGACAATATATTAGGATCTGTTTTTTCGCTCAAGCG

Appendix A

-368-

ATTTTTATGTTTTTTTCAGGCGATTCTTTCCACGCCATTTTCAGATAATACAGCATCGA
CCAGACTGTGAGCAAGATGCGATAAACATCAATACATTGCCGATGAATGCCAGGTTAAA
TCCATAAAAAATCGGAAAATTACGAGCAGCAGGAAGATTGCCAGCATTTGCGCGCGGGT
TTTAAACTTACCGACGGTGGCGACGGCAACGCTGTTCTTTTGCCCATTTGCGCCATCCA
TTCGCGCAATGCCGAAATGGTAATTTCCCTGCCGATGATGATCATGGCAAAACAAACATA
GGTCCGGTCGAGTTTGACCAGTAAAGCAAGAGACGGCGACCATCAGCTTGTGCGCAAC
GGGATCGAGGAAGGCGCCGAAATCCGAGGTCTGTTTCCACAACTTGCCAAAAATCCGTC
AAACCAGTCGGTCAAGGCGGCAACGGCAAAATGACGGCGCGGTGAGATTAACTCGTTTC
CTCCGCGAACCGGAAAGGCAAGGTAAAAAGGGCTGTGAGGACAGGAATGAGCAAGAC
CCTCAACCAGTGTAGGAAGATGGGAGATTCCAAGGCATCGGTTTTCTCTGTGCAGACTG
TAAAGTTGTGATTATAACGGTTATCCTCATAACCCAAAACGTAAAATTGCTGCATGGGCA
TTCCCCCGCCCCGCCAATCTGTTTTCACATCTTTTCAAACGCGAGGAAATGGCGGGCAA
TAAAAGCAAAATACCCAGTTTTCAGGCTGAAAACGGCAGGTTGTGCCAACTTCGACAAG
GCGGTCTTCCGTGCGGGCAAAATCTTTATTGCTTATAGACACTGCCACTGTTGCGGTATT
CCAACAGAACGCGTTTAAAAAACCTTTGCCGACGGTTTCGCTTAAACGGCTCTAACCT
GCTCCGCCCTGATGGTTCTGCCGATATTGCCGCTGTGCACAACTGTGCAACCCATAGC
AGGAAAGCCGGTAATGCTGCCGCTGTCATCCAGTTTATTGCCCGTCCGCTGCGGTGA
GGGCGGTAAACGGTCAATTCCGCATATTGCAATGTTTTTCTTGTTCGTGAAATGCCGTCA
GGTAAGGTGCAATAAAAACGGCGGACAACAGCAGACAGCTTATGGCGGCAACCATACCC
AGCGATAATATAGTGGATTAAATTTAAACAGTACAGCTTGCTCGCTTAGCTCAAAG
AGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATTGTACTGT
CTGCGGCTTCGTGCGCTTGTCTGATTTAAATTTAATCCACTATATTTCACGCTTACCCC
TTGTTTCTCAATGCGCTGAAATAAGCGGCTTAATATATTGTTTACAGTATTGGGAAG
CATAACAGACAAAATGCGCTGAAATATTTTCAGACGGCATTTCTTATCCGAAACGGAT
TATTTTTGCGTTTCAACCGCTTCCATGCACGACGGGCATAAGTGTAGCGGCACCCGCA
TTCAGGGCAATGCGGTTGCCAATGCACCTGCGATTTCGCTGTGCGTGCACCGGCTTTG
GTGGCGCGCGCGCTGACACTGATGCAGCTCTCACAACGTGTAGTAATGGCAACGGCG
ATGGCAATCAGTTGCGGTGTTTTAGCATCAAGTGCTCTGCAGCTGCCGCTGTTCCAAT
GCGCCGTAGGCTGCGAGATTTTAGGATGCGCCTTACCCAGCTCGCGCAACGATTTTTTA
ACCAATGCGGTATGTTCTTTCAATCTTTAAACATTTTCTTTCTTCTTCTGCTTTA
ACCCTGATACGCGCTTGGGTATCTGTTTTGATGTGCGTATTATTGCAATATTTCAGTTG
TGTTTTCTGTTTAAATCATCTCATTTTATGTTTCAAAAAGATTATGGACATCTGGACAA
ACTGGTCGATTTGCGCCAAATGACGGGCAAGTGTGGATGTGCAGTGCTTTTGGGCGGACA
ATGGTCGTTACGGCATGAAACCTTGCAACGCGAAGGATTGTTACATATTGTTACATCGGG
CAGCGGCTATCTCTGCATGCAGCGGCAAACTTCCCCGCGTCCGGTCAGTACAGGGGATAT
TGTATTTTTTCCCGCGCGCTTGGGTGATGTTGAGCCACGACGGAATGCGGAGAAAG
TTTACAACCGGATTTGCGGCAGCACGGTGCGTTTACGGTCAAGCAGTGCAGCAACGGACA
GGATATGAGCCTGATTTGCGCCCGTTTCCGCTACGACACCCACGCGGATTGATGAACGG
GCTGCTGAAACCGTTTTTCTGAACATTGCCCATCCGAGTTTACAGTATGTGGTTTCAAT
GCTGCAACTGGAAGCAAAAAACCTTTGACGGGGACGGTTTCCATGGTCAACGCATTGTC
TGCGCTCTGCTGCTGCTGTTATCTGCGCGCTATCTCGAACAGGATAAGGATGTGCAACT
CTCGGGCGTATTGAAAGTTGGCAGGACAAACGTTTGGGACATTTAATCCAAAAGGTGAT
AGACAAACCGGAAGACGAATGGAATGTGACAAAATGGTGGCGGCTGCCAATATGTCGCG
CGCGCAACTGATGCTGCGCTTCAAAAGCCGGTTCGGAATCAGCCGACGCTTTTGTA
CCATATCCGCTGCAAAAAGGCGGTTGCTGCTGAAAAAAAACCCGGATTGCGTTTTGTC
GGTGCAGCTGTCCGTAGGCTTTTCAAGTCGGAACGCACTTCGGCAAGGCGTTCAAACGGCA
ATATCACGTTTCGCGGGTCAATACCGGAAAGAGGCGGGCAAAAATAATCGGGGCTTC
AAACGCAAAATGCCGTCTGAAAAGGCTTTTACATACAGCATTTGCGTACCGGCTCATTTCAG
GGCTGCATCTTCATCATTCCATCAAAAGTTGGTAAATGCGGGGTTGTTGGGTTTGACA
TCCATATTTTTCAACGCTGCTGCCAGCGCGCAAGGCATTCTGGATATACAGCTTGAC
TGTTCCGTATTGATTGCGCCCGCTGGCTGCTATCGCCGACGCAAGGTAGATTTCATAC
ATACTGTCATCGACGGCATGCGTCCGACCAGGCGTTTTCTGAAGTTGTTGAGATATTGC
GCCGCTGAACCTTGGTCAATTTACCGATACCCACCTGATAGCCCAAGCGCGTTCGTTCA
TCGCTGATTTTGGAACATCCGTCGAATGCGAAGAGGCAAGGCGGAAACCTTTGCAAGG
GCTTCCGTTTTGAGCGTATTGATAGGATTACGGGGATTTCGCTCAATGTGGGCACATAA
ATAGACTGGCAGCGGAAAGAACTGCCGCAATGGAAGAGGGATAAGGTATTTTTTCATG
CCCCATTATAATCAAGTTTGCCTTGAGAAAACAAATGTTTCGGCAAGAAAAATAAAAT
TCGGCATCAGAAGCAGGCAAAAACACATTCCACAAGCCTTGCCGCAAGGTTTACAATCCG
ACCGTCTTATCGCAACGACCGTTTATGGATACCGCAAAAAAGACATTTTAGGATCGGG
CTGGATGCTGGTGGCGGCGCTGCTTTACCATTTGAACGATTTGATTAAAGAGGCATC
GGCAAAATTTGCCCTCGGACGCGCAATTGGTCTTTTGGCGCATGCTGTTTTCAACCGT
TGCGCTCGGGGCTGCGCGCTATTGCGTGGGACACCTTCCGACGCCCCATTGAAAAAA
CCACTTAAACCGCAGTATGGTCCGGACGGGGCGATGCTGCTGCTGTTTTACGCGGTAA
GCATCTGCCTTTGGCCACTGGCGTTACCTTGAGTTACACCTCGTCGATTTTTTGGCGGT
ATTTTCTTCTCTGTTTGAAGAAGCGATTTCGTTTACACGCAAGCGGCTGCTGCTCT
TGTTTTGCGCGCTGGTATTGCTGCTTAATCCCTCGTTCCGACGCGGTGAGGAAACGGC
GGCACTCGCGGGCTGGCGGGCGCGCATGTCGGGCTGGGCGTATTGAAAGTGGCGGA
ACTGCTTTGGCGGGCGAACCCGGCTGGCGCTGCTGTTTTACCTTCCGTGACAGGTGT
GGCGATGCTGCTGGTTTGGGCGACGCTGACCGGCTGGCACACCTGTCCTTTCCATCGGC
AGTTTTATCTGCTGTCATCGCGCTGTCGCGCTGATTGCCCACTGTCGATGACGCGCGC
CTACAAAGTCCGCGCAAAATCACGGTTGCCCTCGCTTCTTATATGACCGTCTGTTTTT
CGCTCTGCTGCTGCTGTTTTTGGGCGAAGAGCTTTTCTGGCAGGAAATACTCGGTAT
GTGCATCATCATCTCAGCGGTATTTTGAAGCAGCATCCGCCCCACTGCCTTCAAACAGCG
GCTGCAATCCCTGTTCCGCCAAAGATAAAAAATGCCGTCCGAACATCCTTCAGACGGCAT
ATCGGGCTTTATTTCCCGCGCTTACATCCTGCCACTGGCGACCATAACTTCAATGCC

Appendix A

-369-

GCCGGCTGGATAGGCACCATGATAAAGCTGTTTTTCAAATCCTCCTCGGTTGGGAAAATC
GTATTGTCGTTTTTAAATTCGTCTTCCATCAGCTCACGCGCAGGCTTGCTCGAAGGCGCG
TAAGTAACGAAATGCGGTTTTTTCGCCGACACTTCCGGGTCGAGGAAGTCGTTGATGTAT
TTGTGCCGCTTGGCGACGTTTTTTCGCATCTTTCGGAATCAGAAAAGAAATCCACCCAAATC
CCCACGCCCTCTTTGGGATCATCACGCGGATTTTTTTCCTTGCCGCCCGCTTCTTCGGCA
CGGCGTTTGGCGATGTTCAAATCGCCGCCGAAACCGATTGTTACGCAGGTATCGCCGCGC
GCCAAATCATCGATAAAGCCGGACGAAGTAAAGCGTTTGATATTGGGGCGGTTTTTCTTG
AGTAGGCGGTTGCCTCCCTGATGTCTTCCGTATTGCTGCTGTTCCGGTTTTTACCCAAA
TAGTTCAACACCATAGGATAGATTTCGCCGCGCTGTCCAAATAGCTGATGCCGATTCG
TTGAGTTTGGACGTGTATTCGGGGTCGAACACCAATCCCACTGGTTGTCCGGCAGCTTG
TCCGTACCCAAAGCCTTTTTTACGCGTTCGGTATTGATGGCGAAGGTATTGTCCCCCAA
TAAAACGGCAGCGCGTATTCGTGGCCGGGATCGACCCCGTCCATCAGCCTCATATTTCG
GGGTTGAGGTGTTTATAATTGGGAATCAGCGACTTATCGATTTTCTGATACGCACCTGCC
TTAATCTGCCTGCTTACCCACAAACGCGATTGGACGGCGCGACAATGTCGTAACCGGACTTGCT
GTCAGCACCTTGCTTTCCAGCGTTTCATCGCTGTCGTACACATCATAAGTAACCTTGATG
CCGTTTTTCTTTTCAAATTCGGCAACGGTTTCCGGATCGACATATTCCGACCAGTTGTAA
ATTTTCAATACGTTTTTGGTTTTTTCGCCGGTGCCGTTTTTTCGGCAGGCGGTTTGTCCGAA
CCGCCGACGCTGCAAGCAGCAAAGCAGTCAGGACGGCCAGGGGCAGATGTTTGGTCATT
ATCATTCTTGCATATCGGGTTGGAGAAAGCGGCCATTATAGCCGATATTGGCAACAGGG
CTTCAGACGGCATTCAAAATCCCGCCACACTCTTCCGAAAACCGCGCTTCCATAGCTAG
AAACAGGGATTTGCGGTAAGATACCGCCGTTGTTTTTCCCTGCTTTTACCATGACAAAGAC
ATTTGAGAGACATTGAAAAAATTATGAAAACCTCCGAACTGCGCCAAAAATTCCTAAAT
TTTTTGAACCAAGGCCACACCGTCGTCCGCTCTTCCAGCCTCGTGCCGACGACGACC
CGACCTGCTGTTTTTACCCAGCGCGGCATGAACAGTTTAAAGACGTATTCTTAGGTTTCG
ACAAACGCGCGTACAGCCGCGCCACCACCGCGCAAAAATGCGTACGCGCAGGCGGCAAAAC
ACAACGACTTGGAAAACGTCGGCTACACCGCCCGCCACCACACTTCTTTGAAATGATGG
GCAACTTCTCTTCGGCGACTTACTTCAAACGCGACGCCATCCACTTCGCTTGGGAATTC
TGACTTCCCCCGAATGGTCAACATCCCTAAAGACAACTGTTGGCGACCGTTTACGCGG
AAGACGACGAAGCTACACATCTGGTTGAACGAAATCGGTATGCCGTCCGAGCGCATCG
TCCGATCGCGGACAAACAAAGGCGGAAATACGCATCCGACAACCTCTGGCAAATGGGCG
ACACCGGCCCTTGGCGCCCTGCTGCCGAAATTTTCTACGACCAGCGCAAGAAATCTGGG
GCGGCATTCCCGCGCAGTCCCGAAGAAGACGGCGACCGCTGGATCGAAATTTGGAACGCG
TATTTATGCAAGTCAACCGCGACGAACAAGGCAATATGAACCCGCTTCCCAAACCTTCCG
TCGATACCGGTATGGGCTTGGAAACGCATAGCCGCGCTCATGCAGCATGTTACAGCAACT
ACGAAATCGACTTGTTCGAAGACCTGCTCAAAGCCGTTGCCCGCAAAACCGGCGCGCCGT
TCGAATGGAAGAACCAGCCTGAAAGTCATCGCCGACCATCCGCTCGTCTGCTTCC
TGATTGCAGACGGCGCTTTCCTTCAACGAAGCCGCGGCTACGTATTGCGCCGCAATTA
TCCGCCGCGCGCTGCGCCACGCTTACAACTGGGTCAAAGCAAAACCGTTCTTCCCAAAC
TCGTTGCGGATTTGGTCAAAGAGATGGGCGGTGCCCTACCTGAATTGAAAGAAAAACAAG
CCCAAATCGAAGAAGCATTGAAAAACGAAGAAGCCGTTTTTGCCTAAACGCTGGAAACCG
GATGGCTTTGTTTGAAGTACGCGATACCCAAAAAATCAAAGCGCGGCAAAACACTCGCGCGCAATCA
TCTTCAAACCTTACGATACCTACGGTTTCCCATACGACTTGACTGCCGACATCTGCCGCG
AACGCAATATCGAACCGGACGAAGCAGGCTTCGAGCGCGAAATGGAAGCCCAACGCGCAC
GCGCACGCGCGCCCAAGCTTCAAAGCCAAACGCCAACTGCCTTATGACGGTCAAGACA
CCGAGTTTAAAGGTTATGCGGAACGCGCAACCGAATCCAAAGTCTCGCCCTCTACAAAG
ACGGCGAGCAAGTCAACGAATTGAACGAAGCGACAGCGCGCAGTCGTATCGACTTTA
CCCCGTTCTATGCAAGATCCGGCGGCAAGTTCGGCGATGTCGGCTATATCTTCTCAGGCG
AAAACCGCTTTGAAAGTACGCGATACCCAAAAAATCAAAGCGCGGCTATTTCGGTCAATTTCG
GCGTACAAACTTCAGGCGCTCTGAAAGTCGGCGACAGCGTTACCGCCAAAGTGACGACG
AAATCCGCAATGCCAATATGCGCAACACAGCGCAACCCACTTGATGCACAAAGCCCTGC
GCGATGATTGGCGACAGCCTGCAACAAAAGGCTCTTTGGTTACGCGCGAATCCACCC
GTTTCGACATTTTCCATCCCAAGCGGTAAGTGCCTGAAGAAATGCGCAAGTAGAACGCC
GCGTCAACGAAGCCATTTTGGCGAACGTTGCCGTCAATGCAGCCATTATGAGCATGGAAG
ACGCGCAAAAAACCGGCGCGATGATGCTCTTCGGCGAAAAATACGGCGAAGAAGTGCGCG
TACTGCAATGGCGGTTTTCTTACCGAATTGTGCGCGGCGACACAGTTTTACGCAACCG
GCGACATCGGCTCTTCAAATCATCAGCGAAGGCGGTATTGCCGAGGCGTGCGCGGTA
TCGAAGCCATACCGGCGCTGAACGCACTCAAATGGGCGCAAGAGCAAGAGCGTTTGGTGA
AAGACATTATTGCCGAAACCAAGGCCAAACCGCAAAAGACGTACTGGCAAAAAATCCAAG
CAGGCGCGGCACACGCCAAAGCATTGGAAAAAGAATTGGCACGCGCAAGCCGAACCTCG
CCGTCCACGCGAGCGCCAACTCTTGGACGATGCAAAAGACTTGGGCGCAGCCAAACTCG
TTGCCGCCCAATCGAAGCCGACGCGCGCCCTGCGCGAAATCGTTACCGATTTAACCG
GTAATCCGACAAACGCGCTGATTCTTTTAGCGGAGTAACGACGCGCAAAAGTCTCCCTGT
GCGCCGCGGTATCAAACCGTTGACCGGCAAAAGTGAAGCAGGCGATCTGGTTAAATTTG
CAGCCGAACAAGTCGGCGGCAAGGCGGCGGACAGCAGATTGCGCGCAAGCCGCGGCA
CGATGCGCGCAAAATGGCCCGCTGTTGGATAGCGTGAAGACTGGGTGCGCGCAAGC
TGTTTTGATGTGGGAAGGCGACCTGAAAGGTTTCAGGCTGCCTTTTGTGCAAGAGGCC
GTCTGAAGGTTCTGTTTGGCGTAGGTTGGGTGCGGACCCAAACAAATTTGTGAAGTATA
AAAATGTTGGTCTAGACCCAACTACCTGCCTTTTGTACAAAGAGGCTATCTGAAAGGC
CTTGTGTTGCGGTATGGTGGGTGCGGACCCAGCAGATTTTTATTAGGGTATGACCCAGCT
ACTTGCTACGATAAAAAAGGATTTTAAATGAGCATTAGCCTATTGGACTACACATTAC
CATAGCAATCATTTGTTTTTACTACAAATTTTATGGGAAAAAATCATCTATATTTGG
CTATTACCAACTCTTTTATCGGAAGAAATCACTCTCCGCGATTAAATTTTTTACAG
AGCATTTACCCCTATATTTATTCGTTATTTTTCTTGGGTTGTTACTAGTCTTGAAT
TCCCATTCTCTTGAAGAGATAAACTATGTAGTAATTTATTTTATAATTAGATTGTT
ATCTGTATTTGTTTTTGAGAAAACACACATAGTTAACTGGTTTAAATCAACTAACATACC

Appendix A

-370-

CATACTATCCATAACATTATCATTATATAGTATATAACAAAATGATTTTGGCCAAAAGTTT
TCTACTTCCATCCTCACAAGAAGTAGCTACTACTTTTGAATAGCGCTTGGTGGTTACAT
ATATAATATATAAATAATGAATCAGGGCATTAAATCTTATAAAGAAAGAGTAAA
TTATGTAAAACACATGCACAAAAAATTTGAAAGTTATTTTGGTAAAATTATAGATAAAAT
AATCAAAGAGGATAGTTATAATAATGATGATTTTTTAACCGATAAGAAAAAGCACTAAT
ATATTCAAGTTTTAATTTATGAGAAATTTAATAGGGGACTAGTTTATAGATATTTTGAAAA
AAATTATTTTGTACTGGTAGAATAAAAAACATTTGGAATAATGCAAGTAACCTCAGCAGAG
TACCTTTCCAATGAGGAAAGTATAAAAAAGGCGGAAATATCTTATGAAAAATACAAT
GAAAAATATAATGAATCTATTGATGGCAATAAACTCTCTATAAATCATATTATGAATCA
AGAAGAGAGAGATTAAAAACTACAACCCAGATGCAAAATACATTAAATGAAATTGAATCA
ATTTACATGATGCTTGGAGAAATCTATCCAAATGCACCAGACTTCATGTCACCACATTTT
GAGGGGACTGCTCTGAGGGGGAATAAAATCATTATTTATCTTTATAGTTATTAGCAG
GATTTGTGCGGCATAAATGCCCGACCTACAAATTCATTTTTTCAAACCTCTGCCAAATA
TTTTCATCTTTTGAAGGCTGTCTGAAAACCCAAACCCCATTTTCAGACGGCCTTTTTTCG
CTAAATCCCCATACCGTTCAATCCGAAAACACAGGAGAAATCATCATGGAAGTTACCATC
TCCGCCATCATCAATGGCGAATTTGCCGACCAATACGGCAAGCGCGGTAGTCAGTTTAAAT
GAAAACGGGATGCTGATTTTAATCTATTTCTTTGAAACTACCAATAACCTGCCTCCATC
ATAAACTAAAAGCAAGCCGTAGCCTGCATTCCCAACACCGCGTGCCTTGCCATGTCAC
ACACCTTACCTGCGGGCGACGCAACCTTAAGAGACCTTTGCAAAATTTCCCAAAATCCC
CTAAATTTCCACCAAGACATTTAGGGGATTTCTCATGAGCACCTTCTTTCAACAACCGC
CCAAGCCATGATTGCCAAACACATCGACCGCTTCCCGCTATTGAAGTTGGACCGGGTAT
TGATTGGCAGCTGATCGAACAATACCTGAACCGTCAAAAAACCGTTACCTTAGAGACCA
CCGCGGCGCTCTGCTATCCCTGCTGTCCATGTTCAAAGCCGTCCTGCTCGGACAATG
GCACAGCTCTCCGATCCGGAACCTCGAACACAGCCCTCATTTACCGCATCGATTTCAACCT
GTTTTGCGGTTTTGACGAAGTATGAGCATCCCCGATTACAGCACCTTATGCCGCTACCGCAA
CCGGCTGGCGCAAGACAATACCTGTCTGAAGTGTGGAAGTGAATTAACCGCAACTGAC
CGAAAAAGGTTTTAAAATAGAGAAAGCATCCGCTGCCGTGCTTGACGCCACATTATCA
GACCGCGCGCAGCAACAGCGTCAGGCCATAGAAGTTGACGAAGAAGGACAAATCAGCGG
TCAAACCAACCGAGTAAGGACAGCGATGCCCGTTGGATAAAGAAAAACCGCTCTACAA
ACTCGGTTACAAACAACATACCCGTACCGATGCAGAAGGCTATATCGAGAACTGCACAT
TACCCCGCCCAATGGCCATGAGTGCAAAACCTGTGCGCGTTGTTGGAAGGTCGCCCAA
AGGTACGACCGTCTATGCCGCAAAAGGCTATGACAGTGGCGAAAACCGGCAACATCTGGA
AGAATCATGATTGCAGGACGGCATTATGCGCAAAGCCTGCCGCAACCGCGCTGTGCGGA
AGTCAAACCAACCGTAACCGGATATTTGTCGAAGACCCGTTATGTTGTCGAACAAAGCTT
CGGTACGCTGCACCGTAATTTCCGCTATGCCCGGCGAGCCTATTTCCGACTGATTAAAGT
GAGTGGCGCAAAGCCATCTGAAGGCGATGTGTTGAACCTGTTGAAAGCCGCCAACAGGCT
AAGTGGCGCCGCTGCCGCTAAAAGGCGAGCCGATGCCGATTATCGGGTGTCCGGGGA
GGATTAAAGGGGTGTTTGGGTAAAATTAGCGGCTATTTGGGGCGAAAACAGCCGAAAC
TGTGTTGGGATTTCCGTTGTCGTGAGGGAAGGAATTTGCAAAGGTCTCCAGCAGTTTG
CGCATACATGCCGTAACGGCAACCTTATACGGCTTACCTCGGACAGCGGGCGTGGTGG
AAATCCCGAATAAGCGGTTCAAAACGCTGCTGCGCACCGGTAGCCATATACAGTGCCTTA
AGCACCGCAGACCTTCCGCCAAAGCAGCGGCTTTTGAATTTGGCTTCCCCGCTCTTCTC
GGGTGCGGGGCAATGCCGACCAAACTCGCTATCCGTTTGTGCGACAGCGGCCCAATTCA
GGTAGCATCGCCATCAGCGTAGCCGTGTTATCGAACCAGATGCCCTTGATTGCTCCGCC
ACTTGGGCTTTGCGCTCAAAATGCGTGTGGGTGTGCTGCGATTTGTTTGTCCGATTG
TCAATCAGCCGTTCAAAATGGGCAATCAGTTGTTTACGCTTCCGACTTGCCTTTCGTGA
ACCTGATGCAGACGGTTTTTCTCGGCAGTCCGCATATCCGCCGATTGGTTGCGGCGGTTA
ACCAAGGCTTCCAACTCTTTCCGCTTGTGGGCGGGTGGTAGGGCATGTTTGGCAA
TCTTCTTTCTGTGCTTCTATCTGTGCGAAGAAGGAGGCAATTTGGCATCTTTGGCGTCG
GTTTTGCTCAGCGACTGCGATTTGGGCAAACTGATGCGCTGACGCGGGTTGGCGATAATC
ACGGCTATGCTCTCGGTGGATGGCTTTGGCGGGGGATTTCGAGACCTCCGGTACTT
TCCGTCACGACGAGGGCGACCTTGTGTTTTTAAGGTATTCGATAGTATGGGCGATACCT
TTGGGGTTGTTGTTTTCGTTTTGTTTTAGACAAAGACGAAACGGCGATGACGAAGTTT
CGTTTGGCGATGTCGATATAGTGAATTAACAAAAATCAGGACAAGCGGGCGAGCCGAGA
CAGTACGGATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCTC
TTCGAGCTAAGGCGAGGCAACGTCGTAAGTTTGTGTTAATCACTATATCTGTGCGTT
ACGACGGCATGCCGCTGAAGGGTGTATTATGCTGCATCTAAGAAATTTCCGATTCTCTT
GAGCTATTTACGATCATCGCGCTGGGCTTGTGCTTGGGGCTGCTGCGGCTTACGGCGC
GTCTGTGCGGCTGCTGCCCGCTTGGCCGCCGAATCGCTGCTTGGCGGGCTTCCGTCGT
CTGGCTCTTGTGTTGGCGGATACCTGATCAAAATGTTTGCCTACCGAAACGATTTTTT
GTCTGATTTACGCGACTTGGTGCAATGCTGCTCATCAGCGGATTCGATTACCGCTAT
GCTGGAGGGATCGCGCTGAAGCCCTATCAGGCAAGCGCGCGGCGAGTCTGATTATGT
CGGCGTTGCCGAGCAGTTGGCTTTTCGATGTATCGGGCGCGGCTGTGTGGCGCGGCT
GCATTCCTTGGAGGCGACGACGCGGATTTATCTGCCTACGGTTGCGACAACTTTGT
CAGCGCTCATCTCTGGCGGCTTGGGGCATCATGATTATGACGCTTGTGTTTTGCGGCG
GGGTATGTTTTCTGCTGAGCTTGAAGCCTCCATCTTGGGCGAGCTGCGCACGGCGGC
ACCGGTGCGCACGGCGGCGCGCGCTGGTCGGCATCCAGCTTGCGCCCGCTTTGTGCG
CTGCGGCGGTATTTGCGCTCGCGGTAAAGTCGACGGTTTGGCTTGGCATTAAATCGG
CTACGGCTGCTGACGTTTTGTTCTGTGCGCTGACCGCTGGTTTTGGGAAGGTGG
TTTTACGATGAGCTTTTGGGATTTTCATTCGGTTTCGCGGCAATGGCAGGATGCGGCTC
GCATCTGGCGGCTTCCGGCGTATTGTGCGGCTTGGGGCTGACGCTTGCCACCGCGGATC
GGCAGGCGTGGGCTTGTGCGGTACGCTGACCGGATAGCGACGGGCGTTTTCTT
GGTACGACGCTGATGCGTTTTGCGGCTTGTCAAAATGCCGCTGAAACGCTGGGATTC
AGACGGCATTTTTTATTTACACCCCTTACAGGTAGAATTTTTTCGATGACTTTCAAATGT
CGTCCAATTTGTACACCAACGGCTGACCGGTGCGGATTTCAAGCCCATATGTCTTCGT

Appendix A

-371-

CGGAAATGCCCTCGATGTGTTTTGCCAGCGCGCGCAGGGAGTTGCCGTGCGCCGCCACCA
AGACCGCTTTGCCGCTCAAATCGCGGGGGCGATTGGTCTTCCCAAACGGCAATACGC
GCTCCAGCGTTACTTTAGGTTTTCCCGTCGGGTACGACATCGGCAGGCAGATGGGCAT
AGCGGCGGTCTTTGTGTGCGGAAACTCATCGTCTTTGTCCAAAAGCGGCGCAGGGTGT
CGTAGCTGCGCCGCCAGATGCGGACTTGCTCGTCGCGGTATGTTGCGCGGTTGTTTTT
TGTCAGGCCTTGCAAGTTGGCCGTAGTGGCGTTCGTTACGCGCCACGTTTGTATTGCG
GTACGAACAGTTGGTTCGATTCTTCCAAAACGATGTGCAAGTCTTAATCGCGCGGGTCA
GGACGGATGTGAAGGCGATGTGCAACTCATAGCCGTTTTCTTTCAGTTTCTTGCCGGCGG
CGGCAGCCTCGGCAAGCCCTGCTCGCTCAGCTTACGTCGCGCCAGCCTGTAACACAGGT
TTTTCGCGTTCCATTTCGCTTTGTCCGTGGCGGATAAATACAGTTCCATATCGTCTCCAA
TGTGTGAAAGTGGGAAAGCCTTATTTATAACATATTTTACATTTCCCGTATTTGATTCA
GATTACAGACACGCCCCACATATGTTTGGCGTTTTGATTTACAATAATGTCTTTGCTTT
ACATTCGCGCATACAAATGAATACGCAAGCGCACGCCCCACATACCGATTCCAATACGCT
GATGCTCGGCGCTACGCCGAACGCGCCTATCTCGAATACGCCATGAGCGTGGTCAAAGG
CCGCGCGCTGCCTGAAGTTTCAGACGCCGAGAAGCCCGTGCAGCGGCGCATTTTGTGTC
CATGCGCGATATGGGTTTGACGGCGGGGCGAAGCCGGTGAATCGGCGCGCGTGGTCCG
CGAGATTTGGGTAAATACGCAACCCGACGCGACAGTTCCGCTATGAGCGCATGGTGCG
GATGGCGCAGGATTTTACCTTGCGCTATCCCTTAATCGACGGCATCGGCAACTTCGGCTC
GGCGACGGCGACGGGGCGGCGGCGATGCGTTACACCGAAGCGCGGCTGACGCCGATTGC
GGAATTGCTGTTGCCAAATCAATCAGGGGACGGTGGATTTTGTGCCGAACCTACGACGG
CGCGTTTGACGAACCCGCTGCACCTGCCCGCCCGCTGCTATGGTGTGCTCAACGCGCG
GTACGGCATTGCGGTGGGATGGCGACCGAGATTCCGCGCGACAATTTGAACGAAGTGAC
GCAGGCGCGGATGCGTTGTTGAAAAAGCCGACGCTGGAACCGCGGACCTGATGCAATA
TATTCCTGCCCGCGATTTTGCCGCGCGCGGTCAAATCATACGCGCGGACGAATTGCG
CCGGATTTATGAAACCGGCAAGGGCAGCGTGCCTGCGGTGCGGTTATGAAATCGAAAA
ATTGGCGCGCGGACAGTGGCGCGTCATCGTAACCGAGCTGCCGCGAAGCGCAATTCGCG
CAAAATCCTTGCCGAAATGCAAGAGCAAAACCCGAAACCGAAGCGGGTAAGAAACA
GCTCAACCAAGACCGCTCAATACCAAAAAGCTGATGCTGGATTTAATCGACCGCGTGCG
CGACGAGTCCGACGGCGAACATCCCGTGCCTGCTGTTTTCGAGCCGAAATCCAGCCGAT
CGATACCGATACCTTCATCAACACGCTGATGGCGCAAACTTCGCTGGAAGGCAATGTGTC
GATGAACCTGGTATGATGGGTTTGGACAACCGCCCGCGCAGAAAAACCTGAAAAACGAT
TTTGAGGAATGGCTGGATTTCCGACCGTAACCGTAACACCGCTCTGAAATCCGTTT
GAACCAAGTGGAAAAACGGCTGCACATCCTCGAAGGCCGCTGAAAGTCTTTCTGCACAT
CGACGAAGTGATTAAGTATCCGCGAATCAGACGACCCGAAAGCGGATTTGATGGCGCG
GTTCCGGCTGACCGAAATCCAAGCCGAAGACATTTTGAAATCCGCTGCGCCAGTTGGC
GCGTTTGAGGGTTTCAAACCTCGAAAAAGAAATGAACGAGTTGCGCGAGGAACAAGCCG
TCTGAACATCCTTTGAGCGACGAAAAACGAAAAACGCAAGCTGATTGTCAAAGAGATGCA
GGCGGATATGAAACAATACGGCGACGCGGACGACGCTGGTGGAAAGAGCGGACGCGC
CGTGCTGACGACAGACCACCGCGACGAACCCATCAGCTGATCCTGTGCGAAAAAGGCTG
GATACGACGCGCGCGGACACAATCTCGATTGAGCCAAACCGGTTCAAAGAAGCGCA
CTGCTCAAAACAACCCCTCGAAGGCAGAACGTTTACCCTGCTCATCTCGATTATC
GGGCAGAACCTACAGCTCGATGCGCGCGAAATCCCGGAGGGCGCGGCGACGGCGTACC
GGTTTCCTCCTTAATCGAGCTGCAAAACGCGCGCAACCCGTTGCGATGTTGACAGGATT
GCCGGAACAACATTATTTATATCAAGCAGCAGCGGCTATGGCTTCATACCAAGCTGGG
CGATATGGTCCGGCGCGTGAAAGCGGGCAAGTGGTGATGACCGCAGACAGCGGCGAAG
CGTTTTCGCGCGGTTGCGCTCTATGCTCCTCGTTTCATCAACCCGACTGCAAAATCAT
TGCCGCCACAGTCAAAACCGCGCCTCGCTTCCCATCGGCGAATTGAAATATGGC
GAAAGGCAAGGGCTGCAAAATCATCGGATTAAACGCGCGGAATCGATGACGATACCGC
CGTTTCTTCGAGCTGGAATCCTGATTGAAAGCGAAGGCGAGGCGCGGCGCGCACAA
AGACCGCATCCCATCTCCCTGCTTGAGGCAAAACGCGGCAAAAAGGCGAGCTATTGCC
CATATCGGGCAGCTGAACAGCTTTCTTCCCTAAATAAACCCGGTTCGCGCATATTA
TGGTGATTTCCAACCCCGCGAACTTGAAAACTCAAAGACCGGATTCCCAATCTGATCA
ACATCATCGCGCTGCGCATCGTTTTTCCGCTGATGATTATGCACATCCTCGGGCTGAAAA
CCGGCAGCGGTGCGAACCTGCACGCTTCGTGGACGGCGTGGCGTTTTATGTTTGGCTCG
CCATTGCTGCTGGCTGATTTTCTTTCCATTATCCATCCGATTGGCAATGGCAGTGC
TGAAATGCGCGTTTCAGCGCGTAGCGGACATCAGATGATCGGCGTGTGACCTACC
TGTTCCGCGGATCGATTCCGGCTTCGGCATCCTGATCCTGCCCTTCGTGCTCTGCTCCT
GCCTGCTCAGTACGGGCGCTACCCCTGCTCTATTCCAGTACGCGGCCATCCTGCTGA
TATTAACGCCATTGCGGACGGCGATATCGGCAATACCCGCTCATATCGGATGCCGAA
CCGCCTCGGCAACCTTCATCCTTGTGCGCGCCTCCTATCTTTCCGCCATCTTCACCTAC
TGTCGGTCAAATACATCGACCGTGCCGGAACCTCGCTACGACAGCATATCGCCTACC
ACCGCATCAAAGGCTTGAGCCAAACCGTACTCGAACGCGTTAGGAAGCTGTGCTCGTCA
TCAATGCCGAAGGGCTGGCGGTGCTGTTCAACCGGAAGGCGAAGACCTTTTCCCGCGC
TCGAAATCGGACGGCGCGCGGTCTGTCCGATTCTGCCCGGAACTGTGGGATCAAGCCT
CTCCGCACATTTTGAATAGTCTCGGCACACCCGCGCTGAACGCGGCGATCCGCGCG
TTCCGGTCAACAAAGGTCGGACAAGCTGCTCATCTCTACATCCGCCGCAAGCGAAA
TTCAGGCGAAGCCCTGTCCGTCAAATTCGCGCGCTCGGACAACCTGACCGCAACCTCG
CCCACGAAATCCGCAACCGATGTCCGCTATCCGCCACGCCAACGCTGCTGCGGAAA
ATATGGAAGCGGGGCGGAGATCCGTTCAACGCCAAATTTGCAAAATCATCGACGCA
ACATCTGCCGATCGACAAATGCTCGAAGACATTTCTCGCTCAACAAGCGCAACAAAA
CCGAACGCGAAACCATCGGCTGATACGTTTGGGAAGAATTCAAACAAGAGTTCCTGC
TCGGCATTCGGATTCGCGCGCTGCTGATCCGTCGGGACATTCAAGGCGGCGAGCCGACCG
CCTATTTTCGATCCCGCCACCTGCGGCAAAATATGTGAACCTCGCCAAACGCGTGGC
GGCACAGCGCAACAGCCGCGCTGATTCCGTCACCATCCGCCCGCGCAAAAAACA
CGTCTGTATCCTTTTGGCGACCGCCGAAGTGACGGAACACCTGTTCAACCTTTTA

Appendix A

-372-

CACCACGGCGGAAACGGCACCGGCTCGGGCTGTATGTCGCCCCGGAACGGGCGACGC
CAATTTCCGGCGATTTGACCTACCTACCGGAAGCCAAATGTTTCGAACCTACATTACCGGA
AAAAACCAATGACTGAATGCAACACCCCGTCTCGTCGTCGATGACGAAACCGACATTC
TCGACCTGATGGAAATGACCCGTGATGAAATGGGCTTGC GCGTCCATACCGCGTCAGGCG
TTGCCGAAGCCAAAAACAAGCTCGACAGCCAACGCTATTTCGCTCGTCTGACCGATATGC
GTATGCCGGACGGCTCGGGGCTGGAAGTCGTCCAACACATCAACAGCCGCTGCTCGATA
CGCCGGTTGCCGTCATCACCGCCTTCGGCAACGCCGATCAGGCACAGGAAGCGTTGCGTT
GCGGCGCGTTTCGACCCCGATACCATGCAGATACAGGACTATCTCGACCAAAATCGAACGCG
ACATCATCGAACAAACCCCTCAAAACAAACCGAAGGCAACCGCACGAGGCCGCCAAACGCT
TGGGCATCAGCTTCCGTTCCATGCGCTACCGTATGGAACGCTCAACATCGGCTGACGAC
AAAACGGCATCCGCACCATCTCCGCCACCCGAAAAAATGCCGTCTGAAACGGCACGGGA
AAGCGGTTTCGCCCCACGCCCGAACGGACACAAACACCATGACCGACATCCTTATTGAC
AACACGCCACCGAAACCGTCCGCACCTGATACGGGCTTCCCGCTTGTGCCGTTTCC
CAACCGCCGAAACAAGGCAAGTTACCTCCTTGGCGAACACGATACCGTCAGCCTCAGGCTT
GTCGGGGAAGCAAGCAGGCTCATGCTCGATTTTGCTCCGGCGCGGCACAATACCGGCGC
ACAAAAGGCGGGGGCGAATCATCGCCAAAGCCGTCAACACACCGCGCACCCACCGTT
TGGGACGCAACCGCAGGATTGGGGCGCGACAGCTTCGTCTCGCCTCGCTCGGGCTGGCC
GTTACCGCCTTCGAGCAACATCCCGCGTGCCTGCCTGCTTTCAGACGGCATCCGCCG
GCCCTCCTCAATCCCGAAACGCAAAACACCGCGCGCACATCAACCTCCATTTCGGCAAC
GCCCGGAACAAATGCCGCACTTGTCCAACACAAGCAACCCGACATCGTCTATCTC
GACCCCATGTATCCCGAACCGCGCAAAAGTGC CGCGCTTAAAAAGAAATGACCTACTTC
CACC GGCTCGTCGGCGAAGCGCAAGATGAAGCGGCACTCCTGCATACCGCACGCCAAACA
GCAAAAAACCGCTCGTCGTCAAACGCCCGCGCTCGGCGAACACCTTGCCGGACAAGAC
CCTGCCTACCAATACCGCAAAAGCACCGCTTCGACGTTTACCTGCCCTACGGGACG
GACAAGGGATAACGCCCCATAAAACAAGACACCGAAAAATTTGCCGTTCTTATGCAACGA
GAAACCGGTTTTTGGCTTTCGACTGTTTTGGATAAGTCATCACACCTTAAAGTTTGTCTAT
TCCCACAGAAGTGGCAATCCGATTCAATTCAGTTTTATAGTGGTTTAAATTTAAACCTA
TAGTTGTTTTTCGAGTTTCAGGCAACTTCCAAACCGTCATTCCACGGAAGTGGGAATCTA
GAAATGAAAGGCAACAGGAATTTATCGTAAATGACTGAAACCGAACGGACTAGATTCCCG
CCTACCGGGGAATGACGGGGCGGGCAGATGCCGTCTGAAATTCGTCATTCCCGTGAAAA
CGGGAATCTAGAACTTCTGATTTTTTCAGACGACTTTGAACATTGCCGCCACCCAAATGAT
CTGGATTCCACCTGCGCGGGAATGACGAGGTTTCAGGTTGCTGTTTTAAGTTGCTGTT
TCGGGTTGCTGTTTTTATGGAATGACAAGGTTTTAGATTGCGAGAATTTATCCGCTCC
TCCGTCATTCCACGGAAGTGGGAATCCAGAAATGAAAAGCAACAGGAATTTATCATAAA
TGACCGAAACCGAACGGACTAGATTTCGACTGCGCGGGAATGACGGGGCGGGAGGATGC
CGTCTGAAATTCGCTCATTTCCCGTGAAAACGGGAATCTAGAACTTCTGATTTTTTCAGACG
ACTTTTGAACTTGCCGCTACCCAATGATTGATTCCCGCTGCGCGGGAATGACGATG
TAAATTTATCCGGGATTCAAAAAGACAGGCTTTCACATCCGTGGGAATGACTGCGGAAAG
ATGATTTTTATAGTGGATTAAACAAAATCAGGACAGGCGACGAAGCCGCAGACAGTACA
AATAGTACGGCAAGGCGAGGCAACGCCGTACTGGTTTTGTTAATCCACTATATTTTGTCT
ATAAAAATCCGCACTTTAATCAGTTGGCGGTTAAATCAAACCTTTTAGGGTGAGATTACT
TTTTATGATTTTCAGACAGCATTTTGACAGGCGGCGAGCTTTTCGGCAATACCAAAAAT
TAATCAGCAGTTCTTTGAATACAAAACCGAACACGCCCAAGCCCAAAACCAAAACAAAA
TGGCGATGCCGAATTTGCCTGCTTTGGACTCCTTGCCCAAAATCCAACGATAAAAACCCA
AAAAAATAATCAAGCGCGTCAGGCAAGTTTTCAACGCCCAATCGGCAAAAACCGCTTCAT
CCATATTTTTTCTATTGTTGATGTGATGCCATATAAGATAAGGGTTTCAGACGGCAT
CTGCTGTCCAATGCCGTCTGAAACACGCAATCAGCGTGCGAGTGCTGTTTCAATCGTC
AATCAAAATCGCCACATATTTCCAACCGACCGACAGGCGCAACCAATCCGGGCGGATGT
GGCGGCGAGTTTTTCTTCGGGCTGCATCCTGCCGTGCGTGGTTGTCCACGGGTGGGTAA
GGTCGAGCGCACGTCACCGAGGTTGGCGGTGCGGGAAGAGTTCCACGCCGTCCACAAC
TTTCCACGCCGCTTCTTGAGTCGCAACTTCAAAGCCGATGACGATGCCGCCCGGTTTTG
CTGTTTGGCGATAAGCGCCGCTGAGGATGGTCGGACAATCCGGTGTAGTACACGGCTTG
AACCTGCGGCTGCGCTTGAGCCATTGTGCGATTTTCAGGGCGTTGTCGAACGTGTTTTTC
CATACGACGCGACAGGTTTTCCACGCCGTCAACAACTGCCACGCATTAACGGCGACAT
CGCCAGCCCGCAAGATTGCAATACATGGCGACCTGCGCCAAACACTCTTCCGAACCCGC
CAACACGCCGCCATCACACGCCGTGTCCGTCTATGGCTTGGTCGCGGAGGAAACGGA
AATATCCGCACCGTGTTCAAAGGCTGCGAGCCGACGGGCGACAGCAGGCTGTGTCCAC
CACCAGAGCGCGCCATGCGCTGCGCCAATTCGCGCAAGGCTTCCAAGTCGGCCACTTC
GCCTAAGGGGTTGGACGGCGTTTCCAAAAACAGCAGTTTGGTATTGGCTTTGACGGCGGC
TTTCCATTTCGTTTATATCAGTCGGCGACACGTGGCTCACTTCGATGCCGAATTTGGCAAC
GATGTTATTGATAAAGCCGACGTCGTGCCGAACAGGCTGCGGCTGGAATCACATGGTC
GCCCGCTGCAAAAAGGTGAAAAACGCCGCTGAATCGCAGACATACCGCGCAAGTGGC
GACCGCGCGTTCCGCACCTTCCAAAGCGGCGATGCGTTTTTCAAAGCGGCGTGTGGTCGG
GTTGGCGGTACGGGTATAAGTGAACCCCTTGATTTTTTTGAAAACAAATCGGCAGCGTG
TTGGCGGTGTGCCCATGCAAGCTGCTGGTCAGAAACATGCCTGATTGTGTTCGCGGTA
TTCGGTTTGTCTTTGCCGCCGCTATGGCGAGCGTTTGGGATGAGGTTTTTTGCTCAT
CGGTGATTCTCGGTTTTGTCGTTTCGGCAACGAGCGTGCGCCGCTGTTTAAATTTGTT
AATATTTGCGCCTGTTCTGATGCTTTCAAGTCGATGAGAATGCAATGCCGTCTGA
AACGGCTTTCAGACGGCATGGCAATCAGCGTTTGTATTTTAACTCGTACTGTATGTCGTT
GAGGATTTGCGGACATCGTGTTCCAACACGTCTTCGACTACCGCCCCCGCTGCTCGTG
CAGCATCTGCTGGAGCTGATAGGTGAAAACGCCATCTGCTTTTGACCGCCGTTCCGAT
GATGCCGTTGTCGCGCATGAGTCAGATGCGGGCGCAGGCGTTGATCAGCCGTTCCGTCAG
CTCCTGTTCCGACAGGCAGAACACTTCGCGCGGTTGACGGCTTTCGGGTTACGATATT
GATTTGGACGGGATCAACGTTTCTTCCGCATCGTTTTCCCGTTTTCCGAAACCGCCGG
CTCATTCGTGCCGATTCTGCCTCGTCGGCGTTTTTCCCGCTTTCAATCTGTCGGTTTTC

Appendix A

-373-

AAATTCGACACTGTCTTTTGGTATCAAACCGGATTCTCCGCCGCGATTTCGATGTGTTT
TTCCGAAACCGACATTTGTCAGGGAAGCCTGCGCGTTGAGCCAGTTTTCCTGAAGGACGAT
CATCGGGTCGGTTTCGACTTCTCGCCGCAATCGGCAACGGCGGCGATTGTGTCTCTCTG
CCATTTTTCAGATACGCTTCAACACACGGGCTCGGCTCTCATCGTCCAGTTTCGGCAC
AGGCGCTCCGTTCCGGTTTCAGAGGGGCGGACAGCGCGCGTAAGTCGGCACTGCCTT
CATACGGCGCGTCTGACGAGGTTTCCAAACGTTTTCCTCAATTCGGCTCTTATTCGC
ATCCATTTTCGGCTTCCGGTTCTTAATCTTGAAGCAGACAAACCGCGCCCAAGCGC
GGTTTGATATAATGGCGCATTTTAACAGATTTCGCGAGGATACATCATGGGCAGCATCGAA
CAGCGTTTGGAAATATCTGGAAGAGGCGAACGACGTGCTGCGTATGCAGAACACGTCCTG
TCCACCGCATTCAAAGCCTTAATCCGCGCCCTTCCCGCCGAAACCGCCGAAATCGCGGTC
GAGTCGATTACGCTTGTCTTGGAGACGCTTGGCAGAATTGAGCTATGAGGACAGCCCG
CATACGATTGTCTCCACGACGTTACTTATGCGTTTTCCTGAAAAAGACGTTAATTT
TATGTTAAACTGATTTTATAGGCTTTTGTATACCGAAAGGAATTTGATGAATATGAAA
AAATGGATTGCCCGCCGCTTGCCTGTTCCGCGCTCGCGCTGTCTGCCTGCGGCGGTGAG
GGCAAGATACCGCCGCGCTGCGCCAAACCGCACAAAGTGACCGCGTGGCTTCCAAC
GCCGAGTTTGGCCCTTGAATCTTAGACTCGAAAGGCAATGTGGAAGTTTCGATGTG
GATTTGATGAACGAGGGAAGCGGCAATTTTAAATCGAATTCAAACACCGAGCGC
TGGGACAGCCTTTCCCGCCCTTAAACAACGGCGATGCGGACGTTGTGATGTCGGGCGTA
ACCATTACCGACGACCGCAACAGTCTATGGACTTCAGCGACCCGATTTTGAATCACC
CAAGTCGTCCTGTTCCGAAAGGCAAAAAGTATCTTCTCCGAAGATTGAAAAACATG
AACAAAGTCGGCGGTGGTAACCGGTACACGGGCGATTTCCTGATCCAAACTCTTGGGC
AACGACAATCCGAAATCGCGCGCTTGAACGCTTCCCTGATTATCAAAGAAGTGGAA
AACGGCGGCTTGGATTCCGTGGTCAGCGACAGCGCGGTATCGCCAATTATGTGAAAAAC
AATCCGGCCAAAGGATTCGTTACCTGCCGCAATTCACACCGCAACACTACGGC
ATCGCGGTACGCAAGGCGACGAAGCAACCGTCAAATGCTGAACGATGCGTTGAAAAA
GTACGCGAAAGCGGCGAATACGCAAGATTACGCCAAATATTTGCAAAAGAACGCGA
CAGGCGCAAAATAAGCCCGCCGCTCCGAACACAATGCCGTCTGAAGCCCTTCAGACGG
CATTGTTTCATCAATCGGCTACAATGAAGTGCCTGCTGATTCTCCCTACCGCAAGCAA
CAGGCAAGATTACAAATATCAAATCCGAGTAAACAGTATTTTATTAACAAATTTGA
TAATCAAGAGATTGAATATGTATGTCTTACCGTACAAACGCTGGCACTATTTCAAC
CTGATAAAAACAGCCTTCAAAAAGGTTGTTTAAACAGCAGCAGACACTTACCGCCACA
ACCTTGAAGAAAGCAACATCATGACCGTATCAAACAGGAAGACTTTATCAAAGCATT
TGCGATGCTTCCAATTATCAGTACTATCATCCCAAGACTACATCGACGCGCTTAT
AAGCGGTGGCAGAGGAAGAAATCCTGCCGCAAGACGCGATGACGAGATTTTGGTC
AACAGCGGTATGTGTGCGGAAACAACCGCCCATCTGCCAAGACACAGGTATCGCAACC
GTCTTCTCAAAGTCGGTATGAACGTCCAATGGGATGCGGACATGAGCGTGAAGAGATG
GTTAACGAAGCGGTACGCCGCGCTACACTTGGGAAGGCAATACGCTGCGCGCTTCCGTC
CTCGCCGATCCGCGCGGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACG
ATGAGCATCGTGCGGCGGCTAAAGTCGAAGTAACTGCGCGGCAAGGCGGCGGCTCT
GAAAACAAACTCAAACCTCGCATGCTCAATCCTTCCGACAACTCGTCGATTGGGTATTG
AAAACCATCCGACCATTCGGCGCGGCTGTTGCTCCTCCCGCATCTTGGGTATCGGCATC
GGCGGCACGCGCAAAAGCGGTGCTGATGGCAAAAGAGTCCCTGATGAGCCACATCGAC
ATTCAAGAAATTGCGAGGAAAGGCGCGCTCCGCGCGGAATGTCCACCACCGAAGCCCTG
CGCCTCGAATCTTGAAGAACTCAACGCGCTGGGCATCGCGCAAGGCTTGGGCGGA
CTGACACCGGTGTTGGAGCTGAAATCCTCGATTATCCGACCCACGCGCTTCAAACCG
ATTGCCATGATTCGGAATGCGCGCCACCGCCACGTCGAATTTGAATTGACGCGCTCA
GGCCTGTGCAACTACGCGCGCGCGCTCGAAGACTGGCCGATTTGACTTACAGCCCC
GACAACGGCAACGCGCTCGATGTCGACAAGCTGACCAAGAAAGAAAGTGGCAAGCTGGA
ACCGGCGACGATTGTGTGTAACGGCAAAATCCTACCGCGCGGATGCGGCACACAAA
CGCTTCTGATATGCTCAACAAAGGCGAAGATTGCGCGTCAATTACCAACCGCGCTG
ATTTACTAGCTCGCGCGGCTGATCGGTCGCGGATGAAGTGTGCTGCTCGGCGAGTCCG
ACCACAGCCACCGCATGGACAAATTCACCGCCAAATGCTCGAACAACCGACCTCTTG
GGCATGATCGGCAATCCGAGCGCGGCGTGGCCACCTGCGAAGCCATCGCCGACAACAAA
GCCGTGTACCTCATGGCAGTCCGCGCGCGGCGTATCTCGTGGCAAAAGCCATCAAATCT
TCCAAAGTCTTGGGCTTCCCGAATTGGGCATGGAAGCCATTACGAATTTGAAGTCAAA
GACATGCCCGTAACCGTCGCGTAGATAGCAAAGGCGAATCCATCCACGCCACCGCCCG
CGCAATGGCAGCGGAAATCGGCATCATCCCGTCGAATCTTGAGGCGCCATGCGGTCT
GAACACAAAATCTGCCTTCAGACGGCATTTCCGCGCCCGGTGCGGTACAATCCACCAT
TCATCACTCGGCGACCCACACCGTGAAAATCCTCATTTTAGGCAACGGACAGGTAGGTTT
TACCGTCGCACAAAACCTTGCCGCGCATACCAACACGACGTAACCGTTATCGACATCGA
CGAAAAAGCATTCAGGAACAGGAGCGCGCTCGATGTCCAAACGTTTTCGGCAACGG
CGCATCCCCCTTCACTTAGAACGCGCGCGGCGGAAGATGCCGACTGTGCTCGCGCT
CTCCCGCAGCGACGAAACCAACATCGTCGCTGCAAGTTGCCCGCGACCTGTTCAACAT
CCCCGGCGCATCGCGCGGCTCCGTTCCAGCGAATACCTCGAATACCTCAGCCCCAAGCT
CGAAAAACAGCAACGCGGAGCTTTCATATTCCGCAATAACCGAACCATCAGCCCCGA
ACAGCTCGTTACCGAACAGCTTGGCGGCTGATAGACTGCCCGGCGCATTCAGGTTTT
ACGTTTTGCGAGACGCGCGTGGCGATGGTCATCATACAGCGCGGCGCGGCGGACTGCT
TGTGCGAGCGAGATTGCGGACATCGCCAAAGATTGCGCGAGGGGCGGACTGCCAAT
CTGCGCGCTTACCGCAACAACCGCTCATCGTCCCGCGCGGCAACCGTCATCATCGA
AGGCGAGGAAATCTATTGCGCGCGCGCGGCAAAACATCGCGCGGTATACCGGAATT
GCGCCCCAAAGAAACAGCACCCGCGCATCATGATTGCGGCGGCGGCAACATCGGCTA
CCGTCTCGCCAAAGCATGCAACACGATACAACGTCAAAATCATGAATGCGGCGCG
CGGTGCCAATGGATAGCGGAAACCTCGACAACACCTCGTCCTGCAAGGTTGCGCAAC
CGACGAAACCTGCTCGACAACGAATACATCGACGAAATCGACGATTCTGCGCCCTGAC
CAACGACGACGAAGCAACATTATGTCCGCCCTTTGGCGAAAAACCTCGGCGCGAAGCG

Appendix A

-374-

CGTCATCGGCATCGTCAACCGCTCAAGCTACGTCGATTGCTCGAAGGCAACAAAATCGA
CATCGTCGTCTCCCCCACCCTCATCACCATCGGGCTCGATACTCGCCACATCCGGCGCGG
CGACATCGTTCCCGTCCACCCCATCCGGCGGGCACGGCGGAAGCCATCGAAGTCGTGCG
ACACGGCGCAAAAAAACTTCCGCCATCATCGGCAGGCGCATCAGCGGCATCAAATGGCC
CGAAGGCTGCCACATTGCCGCGCGTCGTCCGCGCCGGAACCGCGGAAACCATTTATGGGACA
CCATACCGGAAACCGTCATCAAGACGGCGACCACATCATCTTTTCGTCTCGCGCCGGCG
CATCCTGAACGAACCTGGA AAAACTCATCCAGGTCAAAATGGGCTTTTTCGGATAAACCGC
CCCATTCGGGACATATTGCCGCCAAGCGGTATGGAAGCGGAATAATGGTAGGTGGGCTT
CAGACGGCATCCGCCCTCCCGCTATTCCCGCGTAAGCGGGCATCCAGACCTTGGGATAG
CGGCAATATTCAAAGGTTATAAAAGACCCGTCATTCCCGCGCAGGCGGGAATCCAGACCT
TGGGATAGCGGCAATATTCAAAGGTTATCTGAAAATTTAGAGGTTCTAGATTCCCGCTTT
CGCGGGGAATGACGAAAAGTTGCGGGAATCCAGAACGTCGGGCAACGGCAATATTCAAAG
CCGTCTGAAAATTTAAAGTTCTAGATTCCCGCTTTCGCGGGAATGACGAAGTTTCAGAC
GGCATCGCCCGCTGTTTGTATATAGCGGCACCCCGGACAAAAAACAATCCGGAACG
CATCTGACCGTTCCCGCTTGTTTTAGGGCAATCCGCCGCATCAGAACATACTGCGCACG
CCCATATTGACCTGCCAAGTCTAGCGCATCGTGTGCATCGAAGACCTTTGCGCCTCAAAA
TAAAGCTGCCTTCCGTTGTCGGCATTACCACGCAAAAAAATGAATTGCTTGATATTCCAA
TGTTTTTTATATGTTTTTATATTGTGATGCGATCAGACAAACGCCCCCTGACATTGT
TAGACGGCATCGTATTGCTAAATTTCTATAAGTATGTATAATGTCCGTTTCCACGCGCCC
ATCGTCTAGAGGCTTAGACACTGCCCTTTCACGGCGGCAACGGGGTTCGAATCCCGCT
GGCGTGCCTAATTCAAAACCTGCTTGTTCAGCAGGTTTATATATGAGTCGTCTATT
CCCGCAATTTTTCTGTCATTCCCGCAAAAGCGGGAATCTAGAGCGTAGGGTTGAAGAAACC
GTTTTATCCGATAAGTTTCCGTGCCGACAGGTCGATTCCCGCCTGCGCGGGAAGGACG
GCAGAGGTGGAGCATGCCGTCTGAAGCCTGACAAAGCATTTGATGCCGCTGGAACCTTC
GTCATTTCCCGCAAAAGCGGGAATCTAGAGCGTAGGGTTGAAGAAACCGTTTTATCCGATA
AGTTTTCCGTGCCGACAGGTCGTGATTCCCGCTTTCGTAGGAATGACGGAATTTAGGTTT
CTGTTTTGTGGAAATGACGAATAAAGCGTGCCGTTTATGCTCGCGCAACACGCGGTT
CAGACGGCATTTGCTCTCTTTTTTTCATTATCAGTGGGTGTAGCAACTGTATTTTTACCCCC
GTCGGGCAAAAAATACAGTTGCTACGATGCACCCCGCCCTGCCCTGTGCCCTTGTCTG
CAATACGGCATATAATGCACCACAAACCCCGCGCTGCGGTTTTACAGCGGCATCGCCGT
GCTTTTTTACAGCATTTAGCCCTTTTTATCGGACGCAATATTAAGGAGGAACAAATGAAA
AGCTCTTTTGTGCAACGCTTACCATCGCCGTTTCGGATTTCGGGCGCGGTGCGGGCATT
CAGGCGGATTTGAAAACATTTACAGATGCGCGCGGTGTTTCGGAACGTGCGTCATCACCGCC
GTTACCGCGCAAAATACCTTGCGCGTGTGCGCGGTTTCATCTCGTCCGACCGAAACCATC
ACCGCACAAATCCAAGCAATCAGGGAAGACTTCGACATCCGCGCCTACAAAATCGGTATG
CTCGGCACGGCGGAAATCATCGAATGCGTTGCCGACAAGCTGAAACACTGCAGCTTTGGC
AGGCGCTACTCGACCTGTGATGATTGCCAAAGCGGTGCGCGCTGTTGCAGGATTC
CCGCTGCGGCACTGACGCGCTGCTGCTTCCCGATACGGATGATTGACCCCCAACCTG
CCCGAAGCGGAAGCTCTGACCGCGGTGCATATTGAAAACCGTAAAGATGCGGAACGTGCG
GCAAAAATCCTGCTTACGGTGTCAAAAATGTCGTTATCAAAGGCGGACATTTGAAC
GGCAGCAAGAAGCGGACGCTGACCGGATTGGCTGTTACACAAAATGAAACGCTGGAATTC
GACAGCCCGCGCTTTCCGACCGCCACACGCACGGCACGGGCTGCACGTTTTCCGCTGC
ATCACCGCCGAGTTGGCAAAAGGCTCGGACGTTTGCGAAGCCGTACAGACTGCCAAGGCC
TACATCACGCGGCAATCTCAACCCCTTTGGAATCGGCGCAGGACACGGCCCGGTCAT
CATTTGGCGTATCGGCACTAACCGTA AAAATGCCGTCTGAAACAAAATGTTACAGCGCA
TTTTTGAGGATTATTCAGGCTTTTTCGCCAGCATCGTTACAAATTTAAACCGTATCGGAT
TGCCGTTTTCTGCTTTTGGCATGCATAGAACCCAAATCTTCTTTATATTTCAGCAGTTCCC
AATCCCGATAAATAATCCTTCAGCTCGCCCTCTTTAAATTTAAAGGGAACGGCATCGGAC
AGGGGAAATCCGCCGTATCCATTGCCGATACAATCAAGTTGTACCCGCCCGCCCGCTAT
GCGCCTGCATATCGGCAATCAGCTCGGGTACGCGCTGCGGCATCAGGAACATCAGCACCA
CTGTTGCCACAAATATAATCAAACCTCGCCCTGCAAGGCGGCGGCTTCAAATCATATTCCA
GCGTGCGGACGTTCAAACCCCTCCGCTCTGCCAGCTCGCCACGTTTGC AAGGCGGCGG
GATTGTGATCGACTGCAGTAACCTCAAACCCCTCAAACCGAGAAACAGCGGTTGCGCC
CCTGTCCGACGCCATATCCAACGCCCTGCCCGCGGTACGGTATCCCGTGCCCGCGCA
CCGCAGAATGCGTGGCACTCATCCGATTTTTTTGTGAAAATAGTGTCCCGCGCGCAAT
ACAGCGACAACCGATTTCGGCATCGTCCGTTTTCGGTTTGACAGAAAACCTGTGCG
GCGCAACACACAACTCGCGCGCTGTGCCGACCAAACCTTTCGCGACCCGTCCGGTGAC
GAATTCGACATCGCCCTGCAACACATTACGGCAGACCCACTCCCTTCTCAGACGAAT
AGCCCGACAACAAAATTCGGCAGGTTTTCCACTTTCCATACAGGCATCTGTCCGAAAC
AAAACAACCTCGCCACTTTGACCCACTATCCGCTCCTTCATATTCAAAAATAAAGTTGCAC
ATTATATGCCTATTTAATCCCGCAATCTTTCAGACGGCACGGCGCAACCGCTTA
TAATCACGCGGACACCAACAAGGCAATAATGAACCAACCGTTTACCTTTACACC
GACGGCGGTGCAAGGCAATCCCGCGCGGGCGGCTGGGGCGTGTAAATGCGCTACGGT
AGCCACGAAAAAGAACTTTTCGGCGGCAAGCGCAAAACCAACAACCGCATGGAAGT
ACTGCCGTCTACGAAGGACTGAATCGCTCAAACGCCGCTGCACCGTCATCATCTGCACC
GACTCGCAATACGTCAAAAATGGCATGGA AAACTGGATACAGGTTGGAAGCGCAACGGC
TGGA AAAACCGCTCCAACAGCCGCTCAAAAACGACGACTTGTGGAAGAACTCGACGCT
CTAGTCGGACGGCATCAAGTCAAGTTGGACTTGGGTGAAAGGACACGCGGACACGCGGAA
AACGAACGCGCGACGATTGGCAAAACCGTGGCGCAGCGCAGTTTTCTGACTGCCGCTC
CGGCAAAAATGCGCTCTGAAACCGCTAATGGGCTTCAGACGGCATCGTCTCCACCGTCA
TTCCCGCGCAAGCGGGAATCCAAACCGTCCGGCAACGGCAATTTCAAAGATTATCTGAA
AGTTTTGAAGTTCTAGATTTCAGGTTTTCACGGGAATGACGAAAAGTTGCAAGAATGACGGA
GTTTCAGGCGGCATCCGACCGCCCGTCAATCCCGCAAAAGCGGGAATCTAAAACCCAA
CGCTGCAAGATTATCAGAAAACACTGAAACCGAACGGACTGGATTCCCGCCTGCGCGG
AATGACGGGATTTTAGTAACCGTAGCAACCGCCTGCGCGACGGCTAAGGGGCTTCAGCAA

Appendix A

-375-

CCGTAGCAACTGCCTGTGTGGGAATGACGGACAATGGGCTTCAGACGGCATCTCTTGCCCT
GCCGCTAAAAACAGTTTGCCGCACAACTGTTCAAACGCGTCCGATATGTTTCAACACACAG
GACGACACATAAAGCACCTCCCTATGTGTCTCTGATTGGAAGGGGTACACCCCTC
CCAAATAAAGTCTGATCCTGCCGCCCTAAAGGGCGGGGTTCAACCGAAAAGGAAATACG
ATGAAGTGGTACATTAGCGGCAATGCGGACAGACAAATAACTATAGTGGATTAAATT
TAAACAGTACGGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAA
GCACCAAGTGAATCGGTTCTGTACTATTTGTACTGTCTGCGGCTTCGTTGCCTTGCTCTG
ATTTTTGTATATCCGCTATATCAGAAATTACCCTACCGTTTTTAAACACTTTCAGGAAT
AAGGAAAAATGACCGCCCAACCTTGCCCCATCTGCACGGCGCAAAATGAAGACGTTTTGC
TGCAAAACCCCAACCTCCGCGTCATCGCCGTCCATAACGACAGCGGTTGCGCTGCATTCT
GCCGCGTCATTGCGGTAAAGCATATTGCCGAAATGACCGACCTTTCGGCAGCGGAACGCG
GCGAATTGATGGAATGTGTACAAAGTCGAAGCCGCTATGCGCCAAGTGTCCGCGCGG
CAAAATCAACCTCGCCAGCTTGGGCAATGTCTGCCGACCTGCATTGGCATATTATCG
CCGCTTTGAAAACGATGCGTCTTTCCCGCGCGGATTGCGGCAACCCGTCGCGGAAAC
ACGGTATGACCTGCGCGAAGATTGGACGGAACAGCTTAAAAGCTGCTTTAAGCCCGCC
GATGCCGTCTGAAACCGTATGAAAGGGAATATGACCGAACCGACCTCCCGCCGCGGTT
TTCTGAAAACCTTCGACCGCGCTGCCGCGCGGGGCTGCTTCAGGTTGCGGCACATCCG
CCACATCCGTTCCGCCCCCTTCCCTCTTCCCATTCGCTTGTGAAAGCCGAACCGTGCCCTC
TCCAAACGCGCACGCCGTCAAAGTTCGGACGGCAACCTTCTGCGCGTGTGCGCTTCGTCAG
GATTGCGGAAGACACCAACCGCGTCAACACAGCCTTAACCGCCTTACAATGTCCGTT
TTACCGTAACCAACCAACCGCGGCGAGCGCGGCTTCCAAACGGTTGCGGCGACGAGACA
CGCAACGTGCGCGGATTTCGAAGAGGTGCTTCCGCGCGGCTGCGCACGCTAAAGTGC
TGATGGGTTTGGCGGCGGTTACGGTGCGGCGCGGATTCTGCCGATATCGATTTTGCTT
CGCTCGCGCGCAAGGTCGCGGAACACGCGACGCTCTTTTTCGGATTGACGATGCTGCG
CCGTCCAGCTGGCATTGTTGGCAAAAGGCAATATGATGAGTTTGGCGGCCGATGGCTT
ATAGCGATTTTGGCAAAACCGCGCGCGGTTACGATGGATGCTTTATCAAGGGTG
CAACCCAAAACCGCTGACCGTTGATGTTCTTATATCAACGCGCGGATTGCGAAACCG
AAGGCATATTGTGGGGCGGCAACTAAGCGTCTCGCCTCGCTCGCGGCGACGCTTATA
TGCCCGACATCGACGGCGGCAATTTGTTCTCGAAGATGTGCGCGAACAGCCCTACCGCA
TCGAACGATGCTCAATACGCTGTATCTTCCGGTATTTGAAGAAACAGCGCGCCATCG
TGTTCCGCAATTTCCGATGGAATAAATTCGAGATGTCTATGATCCGTCTTATGATTTTT
CTGCCGTTGCCAACCATGTTTCGCGCACGGCGAAAATCCCGTGCTGACGGGCTTCCCGT
TCGGACACATTGCCGACAAAATCACTTCCCTCTAGGCGCGCACGCGCGAATCCGTATGA
ACGGAAACAGCGGTTATTCGGTTCGCGTTTGAAGGCTACCCACACTCGATGCGTCCGCC
TGACTTTGGATACCCTGCTCCACCGCGGATTGCCCCATCTCCCGAAAGCGGTGTG
CCGATATTTCCGAATAAACCCGCAACCGGACAAATGCCGTCTGAAGCCTTCAGACGGCAT
TTCCCAAGACGGCGGAGATTACAGCAATGCCGAATATCGGCTTCGATTTCTTCGGGCG
TAACACTAGGCGCAAAACGCTCGACCACTTCGCGCTCGCGGTTGACGAGGAATTTGGTAA
AGTTCCATTTGATGTCGCTTCGTGCGGCTTCTCTCCCAAAGCTGCGAGCTTCAACACGA
AATCTTTAAACAGATGATTGCCTTTATCTTGCGGTTTGACGGATTTCAGGTAGGCATACA
AGGGCGCGGTATTTGCTCTCAATGACTTCGATTTTGTGCAAAATCTTAAACTTCGTGCCAA
ACTTCATCATACACACTTGGGCAATTTCTCCGCTGCTTTCGGGAGCCTGTTGCGGAACT
GGTTGCACGGAAATCCAAATCTCCAAGCCTTCTGCGGTATATTGTCATACAGCTTCT
GCAAAGCCTCGTATTGCGGGGTGACCGCAACGCGTTCGCGTGTGACAATCAGCAGAA
CCTTGCGCGGATTCGCTGACAAATCAACCGCATTCGCTTTCGATCTTTTATTTGAAAT
CGTAAATACCCATTTTTATCTTATCTGATGTAACCGATGCCATCTGAACAGTGTCTCA
GACGGCATGAAAGCAGCAATTTGTATAGCCGATTAATAAAAAATCCACATCCTTTTCCA
TTCCCGTCCCAATCCCGCAATAAAAACTGCACCGAAAACGGGTGCAAGTTGCTCATTTCA
TACCGCAAAACTTATTTGTCGCGGCCGAATACGATTTTAGTGGCTTGGATGGCGACACAG
ATTGCACCGCGGATAAAGACCAAGTCAGTGCCTGACGTACCCAACGCAAGGTATCGAGG
ATTTCCATTTGACAGCACTCTTCGCTGCGGCAATACACAGACCGTTCGCTGATGGAGGCG
TATGCCCTGAATCGCGCCGACAGGCGAGGCTGATGGCAATCATACCGGCCAAGCCCGG
TTGAGCAGCCAGAGCCCCAAGTCATCAGTTTGTCTCAAACGCGGTTCCGTTTCAAA
TAACGGGCAACAGCAATACGAAGCCCAATGCCAAGAAACCGTACACACCAAAACAGGCG
GCGTGCAGGTAACGCGCAGAAAGTGTCAAACCTTGGATATAGAACAGGGAATCGCGGGA
TTGATCAGGAAGCCGAATACGCGGCAACCGATCATATTCCAAAAGGCGACTGCCACGAAG
CACATCAGCGGCCAACGAGGCGTTTCGCCCAGTCGGACAGGTGTTGGTAAGACAGTGT
TCGTATGCTTCACGGCCAGCAACACACAGCGGACGACTTCCAAAAGCGGAGAAGCAGGCA
CCGATTGCCATAGAGGCGGAGGTAGAGCCGGAAGTACAGGTGGTGCAGCGTGCCCGGA
ACGCGCGCCCAACATAAAGATGGCGGCGAGCGCCAAAGTGGAGGCAAGTGGCGGTACTGCGG
CGGACAAAGCCCATATTGTAGAAGACAAAGGCAAGGCGGCGAGTGCGAAATACTTCGAAG
AAGCCTTCTACCCACAGGTGTAACCAACCAACCGCAAGTATTCATAACCGCAATCGGG
GATTTTTGCGCATAGAAGCGCTGGTGCCTAGAAATACGCCACACCGACCATAGAAGCT
ACGAAGATAGCCAAACAGGTTTTTGTCCACGCCTTTTTCTTTAAAGCGGAAACCGTGCAA
CGCAACATCAGGAACAGCCATACAGCAGACCGACCATCAAAGGAGTTGCCAGAAACGT
CCCAATCGAGGTATTCGTAACCTTGGTGTCCGAACCAAGTAAATTCGGGGGAAGG
ATGTGCGTCAACGCGAAGAGTTGCCCGCTAAGAACCGCGGACCGATGAAGAGGGCG
ATATAGGGAAGTTTACGCGGCACTTGAAGTGGGATCTTACCAGCGGTTGACAATC
GGCGGAGGAACAACTGCGCTCAAAAAGCGGTTGCAATCCAGAAGATGGCGGATTGG
ATGTGCCAAGTACGGGTGAGGGCTAGGGGAACCGTCCGACATTTCAAAGCCCAACGCC
TCGTCAATGCCGTAGAAACCTTGCCCTTCGACGGTGTAGTGCAGGTCAGTCCGCCAGC
AATACTTGTACCAACCAACAGGCGACCGTCAGGAAGACGATTTGCCCAATGCTTTTTGCG
GAAGGGTCAAGTTGGATTTTGGAAATCGGCTTTCAGACGGCACTTCCACTTCTCTGCTG
TTGGTCAGGAAGGAATAACCCACATCAGCAACCGATGCCATCAGCAGAGAACAACG
CTGGTGAATGACCACATATAGTTTTAGTGGTTCGCTGCTTGTGATCAAAGTTTCGTGC

Appendix A

-376-

GGCCAGTTGTTGGTGTAAGTAAAATTCTCGTCAGGACGGTTGGTCGAAGCAGACCAAGAA
GTCCAGAGAAGAGTTGACACAGTTTTTCACGCGCTTCTTGGCTTGGCAATGTATTGTTT
TTCATTGCAAGTGTTCCGAGTGTTTGGAACTTAGGATCGTCGCTGTACACACCGTGG
TAGTAAGGCAGGATGCTTTCGATGGCTTTCACGCGGTATCGCTGATGACGACGCTGCCG
TCTTCTTCACGCGGCTTTGATTGCGGTATTCGTCGGCCAGGCGTGTTCACAGACGGCT
TGTTCTCGGGGAAACCTCGTCGAATTTTTTGGCGTAAGTCTGTTGCGCGGTCAAATCC
AACCAGGCAACCACTCACGATGCAGCCAGTCCGCGCTCCAGTCCGAGCCTGATATGCA
CCGTGACCCAAAATCGAACCGACTTCCATACCGCCGGTAGTCTGCCATGCAGACTGACCT
GCCAAAATATCGTCTTTCGTCATCAAGACCTTGCCGGATGCGGAAACGACCTGTTCCGGG
TAAGCGGGGCTTTTTGTAAACCTCGCTGCCATATAGCCAAGATGGTAAGCATACC
GCCAGAACGGCAACAGCAAGTACCAAGCTTCTTGTACTGTCCCATTTTGAGAGCTCCT
TTAATATAGTGGATTAAAATTCACAAAATATGAATGTTAAAGATTGTAGCAGGTTTAC
CGCGCAAATAAACATTTGTTCAAAGAACTCACATATAAAACAAATACATATATGATAAT
AACTATCATTATTTCTTAGTCGGCACTACCTGCTTGGCTGATTGGCCGAGCCCT
AAGCAAATCAGCCTATTTATTGTAATTTTAGTAGCTATAAAGTATTAGAAGTATCATTT
TAAGTTTCAATTTTATGAATTTTGAATTTTAAATCAAAATGCCCCAATGGGGCAACGC
ATAATCACACCAAGTCTTAAACCAATCCCTCTACTTTCTTACAAAAGGAAAATATTATG
AAACGCCAAGCCTTAGCTGCAATGATTGCTTCTTATTTCGATTAGCCGCTGCGGCGGC
GAACCTGCCGCGAAGCCCTGCCGAAACCCCTGCCGCTGCCGCGAAGCCGAAGCTCC
GCCGCACAAACGCCGCAACACCGTCCGCGCACTGCCGTTATCGATGCGGTTACC
ACCCACGCTCCCGAAGTGCTTCTGCAATCGACCGGACTACCCGCCAAAGTCCGCGTA
AAAATGGAACCGTCGAAAAAACCATGACCATGGAAGACGGTGTGGAATACCGCTACTGG
ACATTTGACGGCGACGTTCCGGGCGGTATGATCCGCGTACGCGAAGGCGATACGGTTGAA
GTGGAATTTTCCAAATCCTTCTTCTACCCTTCCGCAACGCTGACTTCCACGCGGT
ACCGGCCAGGGCGGCGGCGGCGCAACCTTTACCCTCCGGGCGTACTTCCACATTC
AGCTTCAAAGCCCTGCAACCGGCTGTACATCTACCACTGCGCGCTGCGACCGGTGCGT
ATGCACATCGCCAACGGTATGTACGGTCTGATTTTGGTCGAGCCTAAAGAAGGCTGCCG
AAAGTGGATAAAGAGTTCTACATCGTCCAAGGCGACTTCTACACCAAGGCAAAAAAGGC
GCGCAAGGTCTGCAACCGTTCGATATGGACAAGCGGTGCGCAACAGCCTGAATACGTC
GTATTCACCGTACGTTAGGTGCTATCGCCGGCGATAACGCGCTGAAAGCCAAAGCAGGC
GAACTGTACGTATGTACGTTGGTAACGGCGGTCCGAACCTGGTATCTTCTTCCACGTC
ATCGGCGAAATCTTCGACAAAGTTTATGTTGAAGGCGGCAACTGATTACGAAAACGTA
CAAAGCACCATCGTCTTCTGCCGCGGCTCTGCCATCGTCGAATTCAAAGTCGACATCCCG
GGCAGCTACACTTTGGTTGACCACTCTATCTTCCGCGCATTAACAAAGGCGCACTGGGT
CAATTGAAAGTAGAAGTGCAGAAAACCTGAAATCATGACTCAAAAATTGAGTGATACC
GCTTACCGCGGTACGGTGCAGCTCCTGCTGCTTCCGCTCCCGCAGCTTCTGCCCGGCA
GCCTCTGCATCCGAAAAAGCGTTTATTAATTTGGATACCGCTATTAGCGGGACGAACC
ACTGCCCTGTACTTCAATACGCAACCGGCTGGTTTAAACAAACCAATCTTCTTTCG
GAAGATTGATTTTAAACCGCTGTCAAGGAGCTTTATGAAGTATGTCGGGTATTTTCTCT
CGGCGCGGCACTCGCGGCACTCAAGCGGCGGCTGCCGAAATGGTTCAAATCGAAGCGG
CAGCTACCGCCCGCTTATCTGAAAAAAGATACCGCGCTGATTAAAGTCAAACCGTTCAA
ACTGGATAAATATCCCGTTACCAATGCCGAGTTTGCCGAATTTGTCAACAGCCACCCCA
ATGGCAAAAAGGAGGATCGGTTCCAAACAGGCAAGCCGCTTACCTGAAGCATTGGAT
GAAAAACGGCAGCCGAGTATGCGCCGAAGCGGGCGAATTAACAACCGGTAACCAA
TGTTTCTGTTTGGCGGCAACCGCTATTGCGCCGCAACAGGCAACCGCTGCCGACCA
TGACGAATGGGAATTTGCCGGAATGCTTCCGCCACGCAGAAAAACGGCTCAAACGAACC
CGGCTACAACCGCACTATCTCGATTGGTATGCCGACGGCGGACGGAAGGCTGCACGA
TGTCGGCAAAAGGCGGCAACTACTGGGCGGTTATGATATGCACGGGCTGATTGGGA
ATGGACGGAAGATTCAACAGCAGCTGCTTCTTCCGGCAATGCCAACGCGCAATGTT
TTGCAGCGGCGCTCTATCGGGTCGAGCGACTCGTCCAATATGCCGCTTCTTCCGTA
CGCATCCGTACCACTGCAATCCAAATATGCTTGCACAACCTGGGCTTCCGTTGCAC
AAGCCGATAACCCCTTCAATTATAGTGGATTAACAAAAACAGTACGGCGTTGCCTCGCC
TTGCCGTACTGGTTTTTGTAAATCCACTATATCCGCCATCTCTAAGATTTACAGCGATA
CACGGTAATTTAAGGAATGCCGGAACCGTCATTTCCCGCACTTTCCGTCATTTCCGCCA
CTTTCCGTCATTTCCCGCACTTTCCGTCATTTCCCGCACTTTTCGTCATTTCCACGAACC
TACATCCCGTCATTTCCACGAAGCGGGAATCCAGTCCGTTCAAGTTTCGGTCAATTTCCGA
TAAATTCCTGCTGCTTTTCAATTTCTAGATTCCCACTTTTCGTTGGGAATGACGGCGGAAGG
TTTTGGTTTTTCCGATAAATCTTGAGGCATTGAAATTTAGATTCCCGCTGCGCGGG
AATGACGATTATAGTTTCCCGAAATCCAACATAACCGAAACCTGACAATAACCGCAG
CAACTGAAACGTCATTTCCACCACTTTTCGTCATTTCCACCACTTTTCGTCATTTCCACA
AGGACAGAAAACCAAATCAGAAACCTAAATCCCGTCATTTCCCGCAGATGATATGTT
GCCGCTCAACACAAAAATAAAACAAAGTTGCAATATACGATTTATATTGTTATTTTA
TTTACGTTTATTTACGATATGCAATGCACGGTTACACAAATATATTCGCGTAACCGTTT
AATTTGTTGAATTTTATGATTCAATCGGTGCTTTCCGCACTGTAAGGCTGGCCGGTT
TTAACAATGTAATAGGCGAGCTTCGCCAGTTTGCATGATGGCAACGATGATTACCATC
TTTGGCTTACCCGCTTTTTTTCAGATTATTTATTAATTTCCGAAATGCGTTAAACCGTAA
GCACAAAGGGCGGCGATATACAGCGTACTTTTAAATCGTCTGTTTCCGTCATCGGCTCAAT
TCGCCCGACCTCTACGTTTGTCCCTGATTGATGATGGCGGATTAATCCGGCATAG
GATACAACTGGTTTGGGTTTTAAATGTTTTTCTGTGCTGCGCATAAAGAACTGAT
GCGGTGCTTTTGCTATGCTCGGGATGGTTGAAGATTGCGGTAATGGTTATTGTCCGTT
TGTTTTTTGATTGTTCCGATATGGCTATTTTACCTGTTCCATCTTGTCTGTATGGTA
TCTATCAAGTCTTATGCTATGTTTCTTATGAAGTCTTCTTCAAGTCTATGAAGACGGTTT
TTAATTTGCTTCTGATGTTGATGTAATGATTTTAAAGTTAATCAGTTTTTGCAGTGCT
TTGTTTTTGGGTATCTGATACGGTATCAATGTATCTTGATGCTTTTATGTAGTCTGCT
ATCAGTTTGAATCTGCTTTGTGCGTTTTTGGTACGGTTAAACCTGCTTTTTCCGTAAGTCC

Appendix A

-377-

TTGATTTTAAAGGGATTAATAACGTAAACAGTATAGTAGGAAGAAAGCATATCTGCTGCC
TTTTCGTAATAGATGCCTGTTGCCCTCCATGCCGATATAGACTTTTCTGATTCTGTTTCCC
TTTATCCCAACTCTAAACGTGTTTTAATCCATCATATTATCTTAAATTTAATGTAATGG
ATACTCCGTTTGTGTTTATGCAATGTTGCGTCTATGGTGTCTTTGAGATGTCCAGCCCCG
ATTATATTCATTGGTATTTTCCTTATTTATACAGCCTTGATACGGCTAGGATGATATTC
ATTTCCAGGATGGATAAAGGCAGCCGGCATTCTACGCGTCTGTTTTAATACATTGCGGG
ATTTGCTGCGCTGACTGCCCTAGCCCTTGCTTTGCGCGAAACAAAGACCCGTAAACCGTCT
ATATTCAAACGGTTTACGGGTCTTTTCTCTCTTGCCGTTTCTTCAAGTTTGCCGATCC
GACCACGCCCCCGCGATTCCCTTCAAACGGTTTCCCGCGTTCTTCCCAATTATCGTACAT
TAGGTTCTGCTACGGTTTTCCGCCCCAATGTGGCAACTTGCGCCCTGTCCGAATGTTGCTG
CGCGCTTTGCTGAACTTCTGCCCCCTGGCTTCTTCTTTGTATGGGTAAACGGCAAGCC
GTTTTTTACATAGTCCCTTGACATCAACTCCGTCACTTCTTCAATGCCGTCCCTTGATG
CGAATAGCAGGCGCATCCGGTTCTTCCGCTTCTATACAGCCTGCTATATATTCAAAGGT
TCTTACCTGCTTACACCGTTATAAATCGGCTTGCTTTCCGGTTTTTTCGGACAATGTCCG
AACAAACATATCTGCGGTAAAGTTGCCGTATTTACCGGCTCGCCTTCTGTTTTATCCGG
AAGTACTGCCTGCTGTTCTGTTGCCGCGGATTCTTGCTGCGGGTTCTTCTGTTTTTT
TCCGTAACCTGCTCAACATTTTATAGGACAGGCCGACAAACACGGGAATCAGCAATACTAT
TACTGGCAGAGTGTAACCACTTTGACCGCTTGACCTTATTTACGGTATGAACCTCCGC
TGATTCTGACAGTCAATAACTTTTTATCCAGTGTATAGATACTGGAGAATGCGCTTGA
TGCCATTTTTACGGGATCGTCCGCGCATATTTCCATTCTAAAGCGTACGCATACCCAT
CTTGTTTGAAGCGATGTGGTAATGTTTCCGTACAAGCGTTCTAAGATTTTGATCTAGAAG
CTTAGGACCTTGAGTCAAAACAAATATATCAATGCCCTGATGTCTGTGCGTATTACGCCA
TTGGACATTTTCAGGGATTTTGAACCTGCCGAGCGTGCCGGCCATACGCTCTGAGCTTC
ATCTACAAATGACAAATAGACCCGATATTTTCGGGCTCTTTATCCATTCGTACATATCATG
CGCCGAAAGCTGCTCATCTGTGCGATTTCCGCGAGCTTTTTTGCGTCCGTTTCTATGTAGGT
GTGCGGTATTTTCAAGCCTTTTATGTTCTGTAATACTTTACGGCGTATGCCGTTTTTCATC
AGGCTTAAACATTTTCATCATTTTATCGCCATCATGGAACCATTTTAAATGTTTTTCCCTGAAC
GGGCGTGCCGGTTATCAACAGATCTCTGCCATTTATTTTTTCTTCCGATTGAGGTTGC
TAGTTTTGTCTATTGTTTGAATGACAGATAAAGCGGATCGCGCCAAACAGGATATTAAG
AACGTTTCCACCGCCCTTATATAAAAAAGCTGCAACATCGCTTGAGGCGCGCCCGTTAT
GCTATTGGTTATCGCCTGCTGAAATGGGCTACCAATCTATCCACCCCTGAATAGGTTAC
CGCCATCAAGCCTAATGCAAGTCAATATACGGCCTGCCACGCTCATCAAAGCGGAATCAA
TGCGGCCAACATTTTCAATTGCTATCCCTTTCTTAAAGGCAGGTTGCCCTATTAACA
AATGTTTCTTAACTGTGAAGATTTTGCGCCGCTTTCGCGCGCATTCGCGCGCGCGCGCGCTGTGGGGAC
ACCCCTCTCGCCTTATCGCCAATCCCCCGCGCTTCTCGGCTATTGCGACATTCTGTCG
CAAAGTGCCTGCTTCCGCTGCCCTTTCGGCCAAAGTTTCCGAAGCTGAACGCTTTGCGGG
GGACTAGTCCCTGACCCCTAGTCTCACTTGCGACGCGCGGGGCGATGGGGACGGCG
CAAAAGGCGCGCCTTACCACCTGCCCTTGCGGCAGAATGTGTTCTTTTGCGGGGGCGG
CAAGGGGTATCCAAAAGATTTATAAAGACGATAAAGCCGCTCTTACAAATCTTTCTGGA
CGTCTCCCCCTGCCCTGGTACAAGTTACTGAAGCCCGCGGTGCTGCGCTGCTAGACT
TCACGAGATCTGTGCGGATACAAAAAAGGCGGCAACCGCCCAAGCAAGGCGGAGAAGC
ATGTACCTTAGCCGTTCCGGCTATGGTACATGCGTTCTCAAAGCTGAACGCGAAGTGCCTG
CTTGAATCAAGCAGTCACTGTGAAAGTGACAGGTGCGGGACACTGTGCGGAATCTTGA
AAGATTCTGATTCTTCTGAACTCTACATTGACGGTTTCAGACGGCAGATTTAAATCTTCT
GCCGATTGGACTCGGGCAGCCTGTGCGAAGCGAGAATGTGCGGGAAGAATTTGCACAAA
AGGCCGCCATCTTTGCCGTCTTTCCGCTTTCGCGTCCCTGCCGTTTGTGCGTCCCGGA
ACGGCGGGGGAATCGGGTCTGTGCGGGGCTGTCGCTCCGTATCGGGATTGTCATCGGGA
TTCAAATCGGGGTGCGGTTTCGGGATTGGGGCTGCTGCGCGGGTTCTATTGGGGTTTCGG
TTGTTTTCGGGGGTTTTCGGCGGGCGATACTTCGGGCAGCGGCTGTGCGTTCGGTGTCTCC
GCGCTTCCGGGGGTCAAGTCGGGACGCGGGATTACTTGAACATCCACCGTGGTGTTCCT
TGCAATCCCTGCGCAATGTTGCGACAACCTGAACGGGATTCGCGTCTCTGTCCGTGACG
GGACCCATATTCATCTTTGTTCCGGGTGCGACTTCTACTTTTTCGGAATAACCGGGATAA
CCGGTTGCCCTTATGATTTGTGCGGATTGGCATCGACTTCAACGATAAAATCTCTTCC
AGCTTTTGGCATCCATTTCTTCTTTGTATTTGAATTGCGAATAAGGGAATAACAGC
CCATTTCTGAAATCATACACTTTTATGACCAACAATCTCCGCCATTCGAATTAATGTG
CAACGATTTAAACAAATATTCCAATCAAAGAACTTAATTTATTCAGTTCTTCTTTA
TGCCAATTCAAAACGGACGTGCCAGCCTATACATTTGGCTTTCCATCAATTCTTTGACT
TCGGGGAATCTGTGTATCGGACATAAGGCGCATATCGAACTGTCAACGCCGTAGCAG
CCATAGGTTCTATTAATAGCTCTTTGTCTTCGTACCAAGGCAATTACTATATTCGTAG
CCTTTTACAAATTTGTGCGTTTCGGGGTTCGATTGGTAGCCTGTGCTGTATGTCTCT
TTGAAAGTTTCGTATACGTGATGGGCTAAAAGGGCTGTTCCGACATAAGGAAGTGCCTT
GTGCTTAATTTCCGCGCTAAGCGGGCAAGTTGCCGACTCCTGACAAGACGGCGGGCGGG
GAACTGATGCGGTAAATTAACGGGGACTTTTTCAAGAGAGCGTGCACCTGTTGGCAGC
TGTTCTATTATTGAAGTTCGATAATTGACCTGAAAAACGCTGACCATCAACACGAAAA
TCGGTAACATACAGATTTTTTATGATCAATATCCAATCTAACATCTGAATTTCCAATAGGA
TACTTAAACGTTTACGATTAAGAATTAACCGAAAACATCCCAACATTAGGATTAAATC
AAACGTTTAAATTTCAATTCACGACTATAATCATCCTGTAATTTCAAATTTTATATA
CGCAACGACTCATCAGAAAAATAAATTTTCCAAATATTATAGAATCCTTCTATTATA
AAAACATTGGATTCTTCTATGAATTATAAATTTATTAACCTTTGAATAATCCAAAAGCTC
ACTAGCGAAAGTATATGCCATTGTTTTACCATAACTTGTGTTGACGGCTGATATTTATA
AAGTGCCAACCTGCGCTGCGTGATAAACGGTTTGTTCATTGTTCTGCTTTCAAAGGTTG
TTTTGAAAGCCTGATTTTAAACACGTCATTTAAATATCAAAGCGACAGACAAAGCCAA
AAGAAACCGAGAAAGAAACCAAAATCAATAACCATCAATCAATCCCAACCTTGCCCATGT
CTTTTAAAAAATTAATCAAAGCCTGAAGCCGTAATGACTACGAACAGAATTAACCCG
TCGAACCGACATAAGAACCCTGTTTGATCTGCTCAAAATTGGAACATTTTCGATAGGACA

Appendix A

-378-

ACATTACCGGCTTTCCGTTCAAGACCCATTTTTCGCCCACCTTTCCGGCCTGATGATTT
TTCCGTCCTGGGTAACAGTAGGAGGAAGGACGACAATAAATAGTCGTCTGCATGCAATC
TGTGATCAAAACAAATTTATGCCGACGATAGCCATTTATACGCCCTTTTCTTCACT
CTGTTTTATTGACAGATTTAATCATGCTCCAAGCCATTTTGAAGCCTTGGATTGCAAGAA
TCACGGTAATGGCCGCCATACCCACGGCGAAACCATTGACACGAAACCCATGATTACAT
TCGCTACTTGCCTACCAATCGCGGATGGATCAAAGGTATCTGCCATAACAATGGCCGGTG
TGAAGATACCGGCTGCCAAGGCTGCTTTTACAGCGTATTTTAAACGATGTTTCATCGTTT
TTTTCCCTTTTGTATTTTAAATAAGACGACTTCTTGACTTGCTTCATCCGGACGAAGT
CTTTTCCGAATCTCGTTTTTAGCCGATAAAATAGAGGATTGCGAAAAGAAAAAGAAACAT
ACAGACCACCCAGCCGATAATTAGTGTGTGCAAGGTTCATTTTCATGATATTTTCCCTTG
TTGCGGGCTTTGTGAAAGGTTGACAGACCGCCCGCGAGCCTGTTTTCTTTTATTCCGA
TTTTACGAAGAATCGAAATATCTGGAATCCTCCGCTATTTTCATTTATGCCTGAATTCAA
CGCATCTTCGTAGCTTTCAAATGACCTGCTGATTAAATATTTTGAATAACCCACATC
ACCGAAAGGATCGGATAAAATAAGTCATGCGTTTTCCAAGCTTGAACATGAAACGTTT
TTCAAATTTTCATAAATCAACCTTTTCGGCTTTCTGCCACCTGAAAATCAATTAATGAAGG
AACCATGCCCTTACCTGTGCAAGTCATTTCAACCGTTACCATAACTTCGCACGGGTATTT
GAGATTTCTAATTTTGAAGAAATCTTACTGTCCCGAAGTTCATTTGTGCTGCCGTGAA
TCCAACAGCATTTCCCGACTGTGCCGGCAAAGGTGTGCAACCAATACGGAACAAGTGC
GATATTAGAGCCATCAATTTTCGCTTTTGAATTTTGTAGCTCCTAAAAAGTTGCGGGATA
AGTTACAGTTTGTAGTTTGAATTAACATATAATTTTCTTTTGTAGTTAATTTTGATT
GCATGAAGATCATACATTTCTGTGAGATAAAGCTGATATTGCCTCTCACTTTCCACATCG
TGATGTGGATCGAAAAGCCTTTTATCCGGATCGAATTTATCTGATTGCTTAAATTTGATA
ATTCCGAGTTCTTCCAATTCACCTCTAATCTACATCCGTTGTTTCGTGGATAAAGCCG
AATTTCAAAGATTTCTTCAATCCGCGCAACGAATATTTTTCAGGTTCTAGCCCTTTGGGA
TACCCCAAATCTGCCTTCAGATATCTGACATTTTCATCATTCAAACCCATATCAAAC
ATGAAATTAATCAGTTTTCGCGACCGCGTTTTTTCGCTATCTCAATTTATGCTGAAAAGTT
AAATTAGCCACTTTTTCAGGTAATCGAACCTTTCCGGATTCCGGCATATTTTAAATTTT
TGACAAATCGGGAAGCGCTGAAAAGTAAGAACCTTGATTATCAGAATATCCAAGGT
ATTTCCATATCTCCATGATTAACTGAATTTTCGAACCTTACCCACTTGCTTCTTTATCG
CCTAGCTGCCTGCCTTTCTCAATAAACACGCACAAAACGAGAATTTTCTTTCGACCTACA
TAAAATGCTTTCGCGCTCCGCTCCTCTCTCCGCCAAGCCGTTCCAACCATTTAGATTTC
GGCTCATGTTACTGTTATCGAAAAAACCGTTATCGTGATCCAAAAGTGCTGTTCCGGC
GTGTACTCCCATCAAAAAAATCAAGTGCCAAATCTACCCGCTTATCCTCGGCCTCAAT
GAATCTTCCAAAACCTGCTTAAGCCTCAATTTCCCAACCTGGATTGCAATTTGCAACCT
ACACCTTTCAATTCGATTAAAACCGTATTTTCGCTGACCTCCGTAATGGACTTCGCCGTAG
TCAACTTCTTCCGATCCCAACCTAAACATCGAATCGTAAATTTATGCCCCTTCGATTTC
CATCTGCTCGTGATGCCAAACCTAATATTTCTTCCAATTTTGTCTTAAACAAACATA
TATTCGGCATCGGAAACTTAAAGGGCATCCGGAACCTTTCAGCAAGGAATCTTCGTGCAGT
GTGAATGACAACCAATCTATAAAACCGCGTCTGCTGCCCTACGTTGCGGAATTTCT
AATAACTTCCATTGCGGTTAGATATGAATGGGAAAAATATCTGCTTCACTCATTTTG
TTCAGTACCTTTAGGGATTTGTTTTATTTTCGCTCCCCCCTGTTAGTCAGGGGGGGGCTT
TCAGCCGTTTCCCGTCTGCCGCGTAAAGCGGTCACACGGTCAACGACCGAAAGCCCAA
TCCTGACAAACTGTTAAAGATCAAGAAGAAAGACCAACCGTCTGTTGTGATAATTACC
GGAAAATTCGAGCAACCGAATCTATATAATCGAACCGCTGATAAAGCTTTGAAAAATTT
TCTTGTTCAGCGAGTTTATGCGGTTACCATGCCTGAACTGATAGAAACATAAAACGCAA
TAATCTGATTTTTTAAATATTCTCCAATAGGAACAAGAAAATATTACATTTGCTACTGAC
ATAAAAAAGCCCTTTCACTTGGCTGTCAAAGGGGAATGTTAAGAAAAGTAATGCGCCCC
TTGATAGAGCGCATCATATAAGGCGGAATCCAGTCCGTTCACTTTCGGTTCGTTTCCGA
TAAATTCCTGCTGCTTTTCAATTTCTAGATTCCCACTTTTCGTGGGAATGACGGCGGAAGG
TTTTGGTTTTTTCGATAAATCTTGAGGCATTGAAATTCAGATTCCCGCTGCGCGGG
AATGATGAATTCATCCGACGGAACCTGCACACGTCATTCCACGAACCTACATCCCG
TCATTCCACGAAAGTGGGAATCTAGAATCTCAAATTTTCAGATAATCTTTGAATATTGC
TGTTGTTCTAAAGTCTAGATTCCCGCTGCGCGGAATGACGAATCCATCCGCACGGAAA
CCTGCACACGTCATTCTACGAACCTACATCCCGTCAATCCACGAAAGCGGGAATCCA
GTCCGTTCCGTTTTTCGCTGTTTTCCGATAAATCTGCTGCTTTTCAATTTCTAGATTCCCA
CTTTCGTGGGAATGACGGCGGAAGGGTTTTGGTTTTTTCGATAAATCTTCTGAGACATTG
AAATTTCTAGATTCCCGCTGAGCGGGAATGACGATTCTAAGTTTCCCGAAATTCACAA
TAACCGAAACCTGACAGTAACCGTAGCAACTGAACCGTCATTTCCACGAAAGTGGGAATC
TAGAATCTCAGACTTTTCAGATAATCTTTGAATATTGCTGTTGTTCTAAGGTCTAGATTCC
CGCTGCGCGGGAATGACGGCTGCAGATGCGCGACGGTCTTTATAGCGGATTAACAAAA
TCAGGACAAGACGAGCAAGCCGAGGCAGTACAAATAGTACGGAACCGATTCACTTGGTG
CTTCAGACCTTACGAGAATCGTTCTTTTGTAGCTAAGGCGAGGCAACGCGTACTGGTTT
TTGTTAATCCGCTATAACAGCAACCTTGTGCGCGTCATTCCCGCAAAGCGGGAATCCAG
TCCGTTTCAGTTTCGGTCAATTTCCGATAAATCTGTTGCTTTTCAATTTCTAGATTCCCA
TTTCGTGGGAATGACGGCGGAAGGGTTTTGGTTTTTTCGATAAATCTTTCAGGCATTGA
AATTTCTAGATTCCCGCTGAGCGGGAATCCAGTCCGTTCACTTCCGGTCAATTTCCGATAA
ATTCTGCTGCTTTTCAATTTCTAGATTCCCACTTTCGTGGGAATGACGGCGGAAGGGTTT
TGGTTTTTTCGATAAATCTTTCAGGCATTGAAATTCAGATTCCCGCTGCGCGGGAAT
GACGGCTGCAGATGCGCGACGGTCTTATAGTGGATTAAACAAAAATCAGGACAAGGCGGC
GAAGCCGACAGATACAGATAGTACGGAACCGATTCACTTGGTGTTCAGCACCTTAGA
GAATCGTTCTTTTTTGTTCATCCGCTATATTGTGTTGAAACATCGCCACAAACCTGAT
ATAGTCGCTCCTGCAACATCATGAAATCTTTCTTTTAAATCAGTTAAACCGGAATAC
GGAGTCGAAAATGAATCCAGCCCCCAAAACCTTCTCTTCTCTCTCTCTCTCTCTCT
CTCTTCT
GCCGACGCCGATTATGTGACGCGGATTAGCTTATGCCGCCGACGTAATACCCACG

Appendix A

-379-

ATTATCCGAAAGCAACCGGTACAGACAAAGACAAAATAAGCACAGTAAGCGATTATTTCA
GAAACATCCCGTGCAGATTCCATCCACCCCGAGTGTCAGTCGGCTACGATTTCGGCGGCT
GGAGGATAGCGGCAGATTATGCCAGTTACAGAAAATGGAGCAACAATAATATTCGTCA
ACACAAAAGTGTGAAAGAAAACCGGGCAACAGGATAAAACTGAAGACGGAAAATCAGG
GAAACGCTACGTTCCACGGCTCTTCTCTCTCGGCTTATCCGCCATTTACGATTTCAAAC
TCAACGATAAATTCGATAAATTCAAACCCCTATATCGGTGCGCGCGTCGCCCTACGGACAG
TTAAACATCAGGTTTCATTCGGTGGAAACCAAAACCACGATTATACCACCTGCACCAACGG
GAGACGCTACAGTGGGAGGCACTATCCCAGAGAGACCGAGTAGCAACCTGCCCTATCAG
AAAGCAACAGCATCAGCAGCTTGGGGCTTGGTGTCTATCGCTGGTGTCTGGTTTCGACATCA
CGCCCAAGCTGACCTTGGACACCGGATACCGCTACCACAACCTGGGGACGCTTGGAAAACA
CCCGCTTCAAAACCCACGAAGTCTCATTGGGCATGCGCTACCACTTCTGATTCCCCGATA
CCGATGCCGTCTGAACCTTCAGACGGCATGAGACCTTTGCCCTGCGTACTTGGTACGCTGG
TCGCCTCCGAACATGGCGCGACACCCGACATTTCCGCCGAACGCATCGGGCGTTTCATGA
ATCCGGTTTAAACGCATGGAAAATGCCGTCTGAAAGCCTTTCAGACGGCATTGTGCTT
GAGATTCCGTTTACCAATGGCTGACAAACGCTTCCAATCGGTATTCTTGGGCTTATGCA
CTTCTCTGTGCGCGTGGCGACCATCATCAGCCCGATGATTTTATCCTTATCCGCACAAAC
CGAAAGCCTCCCGCAACACGGGGCTATTGACCCACATCCCGTAATCCAGACATTGTGCA
ATCCCTGAGCCGTTGCCGCCAGTTGCAGCGCATACGCCGCAACCCGCCGTCAGCATCT
GCTCCCATTCGGGTTTCGGCTTAGGCACATCGCGGTTCCGGCGCAACGTTACCCCGATAA
CCATCGGCGCCATATTGCCCATTTTTCGCCCTTTTTCATCGCATCGTCGCCGAATTCATCA
ATTCCGGCAACCGTTTGGTTCACACATCGCGAAAACGTTGCAATCCTACCTCGCCTTGAA
TCACGGTAAACGGAAGGGGCGCATATTGCCGTGATCGGGAACCTTGGGTTGCCCGCTGAA
ATATTTGTTCCAACCTCCGCCGATCGGGGGCGGGGTGCTTCAGCTTTTGGAGATCGGC
GGTTCGTCAATATTTTAAAGCATCCATATCGTTATACTCCGGTCATCGGTGCGGTGTTT
GGACACATATGCCGTCCGAAGGCTTCAGACGGCATATCCGGCATCAGCGCGGACGGCGGC
AGGCTGCCAATATATCCATTTCCTTCGATAGGTTTGGCTATTGGAATGTCCATCAGCC
CCAATACCGTGCTGAATAGTGGTTCGTGCGAATATTCGTTTTCGCCGCTTTTGTGTTGA
GGCATTGGAAATCTATGCCCCGTGTGGCGGAAGGCTTTGGAAAACCATACCATCG
GGATATGCGTCTGCCCGGAAGGCGCATGGCGTAAGGCGCGGCGTGCAGGTACATCCCGT
TTTCGCCCAACCTTTCGCCGTGGTCGGAACATAATGCACCACGCTTTCCAAAATCGTCGC
GGTTTTCAAGTTTTCGGGATAACCTTGTGATAAACTGGTCCACATACAAAACCGTATGT
CGTAAGTGTGACACGCTGGCGCGGGTGCATTTGTTGATTTCGTTGGTGTGCGAGTTCG
GCGTGAATTTGCGTTTCGGCTTCGGTATAGCGTTCGTAATACGTCGGCCCGTGGCTGCCGA
TGGTATGAGGATTAAACCGCGCTTTATCGTTTGTGTTGAGGACTTCGTCGAACCTAG
TCAGCAGGATATGTCGAGGCACTCGCCGTTGCCGCGAGTATTCGGGCGAGTTGAGCGAGG
TAACGTCGGTATTCGGCACTTTGCCGCGACACGCCCTTGCAGCCGGAATCGTTTCCAACC
AAGTAACTTCCACGCCGCGCGCTGCACGATGTCAGCAGGTTGTCTTGGTGTTCGGCTT
TGATTTGTCATATATCCGTGCGGTGCGGTGCGAAGTTGAGAACATACACGGCAGGAGTGC
TCGATGTGCCGAGCTTTCGACCTGCGGGAAATTGACAATTCATCGCCGCGCGCGGCAA
GCAGCGCGTAGTTTGGCGGCTGTAACCGTTCAAACCCAGTTGGCGGCACGCGTGGTCT
GCCCCAGCACCACCAACCGCGCAGGCTGCCGGCGGGCGGTTTTGACACACCG
CCATATCCAATTGCGTATAAGGAATATTGGAACGCTTCCAATCTTGTATTTCGACACGC
CCGCGCGCATGAAATTAGACGGCACAATCAGATGGGTTACTGATTATTGTTGCGGAAAA
ACGAGGCGTAATCCTGATATTGCAACATTGCGATGCCAACGCGCACAAAAAGGAAACGG
CGGCAAGCACAAAGCGCGCTCAAAAGCTCCTTATACCAACGCGGTATTTAACCTTGACGG
CGATATACGCCAGCGCGGGCAATACGCCCAACATACAATCCACAGCACATAGCCCGCG
TAATCAGGCGCGCGCTTTCGGCAGCCGTAGTTTGAAGACATTATTCACATCGACTTGT
TGAAATAGATATTGAAAAATATTTCTTGGTAAGACACCGCGCACTGATAACCAATATCA
ACGGAATCAATACCTTATGCACGAAAGGCGAGGCAATGACGTGAAAAACGAAATTACTTA
AAAAAACAGCACCACCGCATCGTATAGAGGAAGATATCCGCCCGGTGCCGTTAAAG
GATGAAGCTCGACAACTTGGGCAAAAAGGCGTAATTCATACAGCGAGGAATACAGGG
AAAGGAAGGCAATCAGCGCGGAAGAGCGGAGCTTCGGCCTCAGGTTTCGGTTTATCATT
GGAATGTGTGCGATAAGGTTTGGAAAAGGCATCCGGCATTGGAATCCGGATTATTGAAA
AAGATTCTTAATTATAAGGCAACGGAGCAAGCAGGGCAAGAAAACGGCGGCTGTGCGGG
GGGTTCCGCCCGGCATTCAAACGTCGGCGACATAAAAACATCGTAAGCAAGATTGAA
CCGGTCTGCAACCGCCCTTGCAGAAAAACGGGCAAGCATTTTCATATTGAAAAACCCA
GCCGCGCGCGGACGGGACAGTCCGGCACAAACAGCATACGCTCGGATTGAAAAGGACG
GATAGCCGCGCGGACACAATCTTACCACCTCCAACACGCCGCGGAGAACGCCGAAACA
GCCGATGCCGTCTGAAGCCGCTTCAGACAACATCGGGACATCAACCGTAACGCCGTTGGA
AATCGCGCATAAATCTGCCAAAGCCCGCAGCCTTCAAGCGGCATCGCATTATAAATGC
TGGCAGCATAACCGCGACGGTTTATAGCCCTTAAGCAGGCACAAGCCCTGCAATTCGG
CTTCCAGCACAAACGGCGGTCAAGCTCCTCATCCCCGTTTGGAAACAGCATTTCATT
TAGAACGCGCATTCGGACGGATACGGTTGATATAAAACCATCGCTGCCGTCTATCGTCT
CATACAAGGTTTGGCCCTTCAGCCGATTGACCGCTTCAATTTTTTTCACACCGCCCTGCG
CCTGTAGCCAGCGGAACACCGCCGACATATAAATCGCGTAAGTTGACGGCGTGTGT
ACATACCGTTCGGGTTGATGTGCAACGGTAGTTGAACACATCGGGAATATCGTTCGGAC
ACCGTTCGAGCAATCTTCACGCAACATCACCACGTAACCTGCGCGCCGATGTTTT
TCTGTGCGCTGCGTAATCAGTCCGTAGTCGGCAACATCAAACTCGCGCGACAAAATCT
CGCTGGACATATCGCACACCAGCGCGGCATGCCCTTCTGAAAGGCACGGCACTTCACGGT
ATTGACGCCGTTGACCGTTTCATTGACGGCAAAATGGACAAACGCCGAATCGGGTGCAA
CATCCACGTTTCCACAGGCGGCGAGTGCAGATAGTCGAACTGCTCGCGCCATGCGCCG
CCAAACGGATTTCGGTATTCGGTCAAACGGCTCATCTGTTTATAAGCGATACGGCTCCAGT
TGCCCGTTACCACCGCGTGGCAGTGCAGAAACCGTGTGCCAGATTTCATGGCTGCCATAT
TAAATGGGTTGTGCTCCGCCCTGCAGAAACAATATCTTATAGTTGTACGGCACTTTCA
AAGCTGCCCTCAATCTGTTCGGCATGATGCAGGATGCTCAAAACATTTCCGAACGGT

Appendix A

-380-

GGCTCATTGCCATCACAGGAAACCCGTACCGTTGTAGTCCAACATTTCTGCGCGCCG
TTTCCAACACGGGTTCCGGCAATACGGCAGGGCCGGCGGAAAAATTGTAATCGGATAAA
GAGACATGATGCAGCCTTGATTCTGAACAATAACCCGCCGATTTTAGGCTTGACAGCAGG
CTTTGTGCAAGGATGGAAAAATACCTGTCTCCGCCGATTCATGCGCGCCGAACACGGA
AAATAATATCAATATATTGATTTACAAACATAAAAAATCATGCACGCGACAAATAGATACA
TTTGTGTTGTCAACAATATTCACGATTTCCCATTTACAAACCTCCCTTACACCCGCTTTT
TCCGTCCCAAAAAACAAAAATAATCAACACTTTTCATTTCTCCGCAAAAGCGTTATAAT
CACGCCGATTTTCAACTTTGACGAAAAATGGCCACGGGGCCATTTTATTTATGTACA
TAGGGAGCAGCATGGATATCCAAACCATCTCGAAAAAACCTGCCCCGCTGGGCTACG
AACTGGTCGATTTGCAACTGACCGCGCAAGGAACATTGCGCGTGTTCATCGACAAAGAAA
GCGGCATTACCGTCGAAGACTGCGCAACCGTCAGCAACCACTTGAGCCGCGTCTTCATGG
TTGAAGACATCGACTACAAAAACCTGGAATTTCCAGCCCCGACTCGACCGCCCCCTGA
AAAAAGCCGCGGACTTCGTGCGCTTTGCCGCTCAGAATGCCAAAATCAAAACCCGCTGC
CGATAGACGGTCAGAAAAATTTATCGGTAAAAATCGAAGGCTGCGAAAAACGATACCGTTA
CCGTATCCTTCGACGGCAAAACCGTACAAATCGAATTGGGCAACATCGACAAAGCCGCTC
TGCGCCCCGAATTCAAATTCTAAACACACAATATTGGAGATGTTCAAAATGAGTCGTG
AAATGTTACAGCTGGCAGGCACTGGCAAGCGAAAAAACGTTGATGCGGAAGTCGTCT
TCCAAGCACTGGAATTCGCCCTGTCTACCGCCGCCAAGAAAAAGGCAGACCGCGAACACA
TGGACGTGCGCGCTCCAAATCAACCGCGACACCGCGCAATACCAACCTTCCGCGCTGGC
TGATTGTCGCGGATGAAGACTATACCTATCCCGATGTCGAAAAACCATCGAGGAAATCC
AAGAGGAAATTTCCGGCATACCATCCAAATCGGCGAATACACGAAGAGCAGCTGCCCA
ACGAAGGCTTCGCGCGCCAGCCGCGCAACCGCCAAACAAATCATCTGCAACGCATCC
CGATGCGCGAGCGGAGCAGAACTCTGAACGAGTTTCTCGCGCTCAAAGAAGACATCGTGT
CCGGCAGGTTCAACCGCTCGAAGCGCACGGCATCATCGTGAAGTCGTTGCCGGCAAC
TGGACGCGCTGATTCCGCGCGACCAATGATTCCGCGCGAAAACTTCCGCGCGCGGACG
GCATCCGCGCCCTCTTCTGCGCGTCGAAGAAATCGGCAACACCGCGCCGAACAAAGTCA
TTCTGAGCCGTACTTCCGGCGATTCTCTCGTCAAATGTACGCCAATGAAGTACCTGAAA
TTGCAGACGGCATGCTCGGCAATCCGCGCTGTGCGCCGCGACCCGGGACACGTCGCAAG
TCGCGCTCAAAGCAACGACGAGCGCATCGATCCGCAAGGCACCTGTATCGGCGTTGCGG
GTTGCGGTGTCATGCGCGTCAGCAACGAATGTCCGCGGAGCGCATCGATGTCGTCTCT
GGTCGCCCGAAGCCGCAATTCGTGATGAGCGCGCTCTACCCGCGGAAGTCAGCGCGCA
TCGTATCGACGAAGACAAACACGCGCTCGATGTATCGTTGCCGAAGACGAGCTCGCGC
TCGCCATCGGGCGCGCGGTCAAACGTCGCGCTTGCTTCCGACCTGACCGGCTGGCAGC
TCAACATCATGACTCCGCGGAGGCAGACGAACGCAATGCGGCGAGAAGATGCGGCCATCC
GCCGCTGTTTATGGATCACTTGAACGTGGACGAAGAAACCGCGGACGTACTGGTTCAGG
AAGGTTTTGCAACCTTGAAGAAGTCGCCTATGTCTGCGCGCGAAGTGTGCTGCGATTG
AAGGATTTGACGAAGAAATCGTCGATATGCTCCGCAACCGCGCCCGCGATGCCATCCTGA
CCATGGCGATTGCGCGCGGAAGAAAACTGGGCGAAGTGTCCGAGATATGCGCAACCTCG
AAGGCATAGATGCCGATATGCTCCGCGAGCCTTGCCGAAGCAGGCATTACCACCGCGCAGC
ACTTGGCAGAGCTTGCTGTGGACGAACTGATTGAAATCACCGGTGTAAACGAAGAAACCG
CAAAAGCCGTCTACTTCCGCGACGCGCAACCACTGGTTTACCGAAGACAAATAAAGGGGT
ACAGATGAGTAACACAACCGTAGAACAATTTGCCGCGGAGCTGAAACGCCCCGTGGAAGA
CCTGTTGAAACAGTTGAAGAAGCCGGCTCAGCAAAACAGCGCGAGCGATTCCCTGAC
GCTGGACGACAAACAGCTTCTGAACGCCCTACCTGACCAAGAAAAACGGCAGCAACAGCAG
CACCATCAGCATCCGCGGACCAACCAAGGTGAGCAGCGTTGACGGCGTAAAGTCGA
AACACGCAACGCGGACGCACTGTCAAGATTCTTCTGCCGAAGAAATTGGCAGCACAGGT
AAAAGCCGCCCAAAACCAAGCCGACCTGTCCGCGCGGAGCAGACGGCAGAAAGACGCGG
AAAAGCCGAGCCGCAAGCTGCCGACGCGCAGAAAGCCCGTGCAGGCGAAGCGGAAGC
GGCAAACTGAAAGCGGCAAAAGCAGGCAACAAAGCCAAACCTGCCGCGCAGAAACCCAC
CGAAGCAAAAGCCGAACCCGACCCGTTGCGGCGGAAACCAACCCGCGGAAGAAAGCAA
AGCGGAAAAAGCCCAAGCCGCAAAATGCCGTCTGAAAAACCCGCGAGCCCAAAGAAAA
AGCCGCGAAGCCGGAACACGAGCGAAACGCGCAAGGCAAGATGCCAAAAACCGCGGAA
ACCTGCGCGACCTGCGGTGCCGCAACCCGTGGTCAGCGCGAAGAACAGGCGCAACGCGA
CGAAGAGCACGCCGTGCCGCGCACTTCGCGCCACCAGGAAGCCCTGTTGAAAGAGAA
ACAGGAACGCCAGGCACGCCGCAAGCCATGAAACAACAGGCGAAGCAACAGGCAAAAGC
CGCACAGGAAGCCAAACCGGACAGCAGCGTCCCGCCAAACCTGCCGAAAAACCGCAGGC
AGCCGCGCCAGCCGTGCAAAATAAACCTGTCAATCCGGCAAAAGCGAAAAAGAACCG
CCGCAACCGCGATGACGAAGGTCAAGGCCGAAACGCCAAAGGCAAGGCGGAAAAAGGCGG
ACGCGACCGCAACAATGCACGCAATGGCGACGACGAGCGGTACGCGGCGGCAAAAAAGG
CAAAAACTCAACTCGAGCCGAACCAACACGCCCTTCAAGCACCGACCGAACCCGTCGT
TCATGAAGTTTTGGTTCCCGAAACATTACCCTTGCCGATTGGCGCACAAATGGCGGT
CAAAGCGTGGAAAGTGGTCAAGGCCCTGATGAAGATGGGCGATGATGTTTACCATCAACCA
ATCCATCGACCAAGACACCGCCCTGATTGTGGTGAAGAACTCGGCCACATCGGCAAAAC
TGCCGCGAGCCGACACCTGAAGCATTCTTGAGCAGGGCGCGGAAGCAGTGAAGCCGA
AGCATTTCCGCGCTCCGCGCTTACCCTGATGGGCCAGCTCGACACGCGCAAAACCTC
GCTGCTGGACTACATCCGCCGTACCAAGTGGTACAGGGCGAAGCGGGCGGCAATTACGCA
GCACATCGCGCGCTACACGTTGAAACCCCTCGCGCGGTGATTACCTTCTTGGACACCCC
GGGCCACGAAGCCTTACCCTATGCGCGCACGCGGTGCGAAAGCAACCGACATCGTGAT
TCTCGTGGTCCGCGCGACGCGGTGATGCGGCAAAACCATCGAAGCGATTGCCACGC
CAAAGCTGCGGGTGTACCGATGGTGGTTGCCGTCAACAAATCGATAAAGAAGCCGCCAA
CCCAGAGCGTATCCGCAAGAGCTGACCGCACACGAAGTTGTGCTGACGAATGGGGCGG
CGATGTACAGTTTATCGACGTTTCCGCTAAAAAGGCCCTGAACATCGATGCATTGTCGA
AGCCGTCTGTCTGAAGCTGAAGTTTGGAACTGACCGCACCTGTGATGCGCCCCGCCAA
AGGCATCATCGTCGAGGCGCGCTTGGACAAAGGCCGCGCGCGGTGCCACATTGCTGGT
TCAAAGCGGCACGCTGAAAAAGGCGATATGCTGCTGGCGGTACGGCATTCGGCAAAAT

Appendix A

-381-

CCGCGCGATGGTTCGATGAAACGGCAAATCCATTACCGAAGCCGGTCCGTCCATCCCCGT
CGAAATCCTCGGGTTGTCCGACGTACCGAATGCGGGTGAAGACCGCATGGTATTGGCGGA
CGAGAAAAAAGCGCGCAAAATCGCCCTCTTCGCGCAAGGCAAATACCGCGACGTGCGCCT
TGCCAAACAGCAGGCGCGGAAGCTGGAAAATATGTTCAACAATATGGGCGAAACCCAGGC
CCAATCTTTGTCCGTTCATCATCAAGGCAGACGTGCAGGGCTCTTACGAGGCTTTGGCGGG
CAGCCTGAAAAAAGTGTCCACAGACGAAGTGAAAGTGAACGTGTTGCACAGCGCGGTGGG
CGGCATTACCGAATCGGATGTCAACCTTGCCATCGCTTCGGGCGCATTCATTATCGGCTT
TAACGTGCGTGCAGATGCCCTCTTCGCGCAAACCTTGCCGAAAATGAAACGTGGAAATCCG
CTACTACAACATCATCTACGATGCCATCAACGACGTGAAGGCGGCGATGAGCGGTATGCT
TTCCCGGAAGAGAAAGAACAGGTACCGGTACGGTCGAAATCCGTCAGGTCATCTCCGT
TTCCAAAGTCGGCAACATTGCAGGCTGTATGGTTACCGACGGCGTGGTCAAACGCGATT
CCATGTCGCGCTCATCCGCAACACGTGGTTATCCACACGGGCGAACTGGCTTCGTTGAA
ACGCTATAAAGACGATGTAAAGAAAGTCCGATGGGCTTCGAGTGCAGGCTGTATGCTCAA
AGGCTACAACGAAATCATGGAAGGCGACCAACTGGAATGCTTCGACATCGTCGAAGTTGC
CCGCAGCCTGTAATTCCTTTGCAAATAAAATGCCGTCTGAAGCGTTTCAGACGGCATACGA
AACGGGTTCTGTATCATACAGAACCCGTTTTTTGTGCGAAATCGGCTTCAGACAGCCCTC
TTGCCCTATCCGATTTGAATCTGACTTGCCATACAAACAGGCTTCAGACGGCATTATTT
GCCCCGTAAACGTATCCCAAGCTTCTCCGATATTCCTGCGTTTCGGCGCGGCTGGTTTC
CGGGCGGTGCGTATTGAGCGACGACCATTTCCAATGACTGCGGGCTTGTGTAGTTTCGGG
CGGAGTCTGGCGGCATCCACGGGACTTTGCGGCTGTGACGTCGATATCCGACTGTGC
CGCGTGTCCGCGCGTTTGCAGGACGTGGAGCAAATCGAGGGCGCGGGCGGCGAGCAGGGT
CAGGGTTTCAGGGTCGGGTGTGACGGGTTTGGCGGCGAGCGAGTTTGTGCGAAATGGTGCG
GGTATTGGGCGAGGATGCCGCCCCAAAAGCCGCGGATTGCCGTACCCAATCCGAGCGAGCC
GCCGAGTGTGGCGATGTCGAGCCCCAAGCCGATGAGCGCGCGGGTTGCCGCGCCCGTGGC
GGTGGGATGCCGTATTGTTTGAACAATTGCTGTGCAACGGGTCTTGGCGGAAGGCTTG
CGGCATCCAGTCCGCGCGTTCGATTTGCTGTGGTAGAAACGGTAGAGGGCAAACAGCCG
CTGCTGCATCTGCGCTTCCGATTTGCGGTATTTCCGCTGCGATGGTTTGCAGCAGGTGGC
GGTATCCTCGTTTTCTGCCACTTCTGCTGAAGGCGGCGGCATCAATAAAAAGTCGGC
GATTTCCGCGCGCGCTTCGCCGTCCAGCCGCTGCCATTCCGCGCGGCGCATGGCTGTGAG
GCGGTCAAGTGTGCTGCGTTCGGGCAACATGGTGGCGAGGTTTCCACAGGCGCAGTTC
GCCCTCAAATCAAAGGCGACGGTGTGCAACCTGCGAAAACGTGACGTTTCTCCTCGC
CAGCATGGTTGTCCACGATTCCGGGAAGCTGTCCGCGGTAAGTTGAACACGGGCATAAC
CGGTTTGGCACACCATGAAAGGATGGTCAACTCGTCCCTGTATTTGTGAGGACGGGTTT
GCGCGCGTCGATCGCATATGCGATATCGCTTTGCAAGACTTGCCGTAAGACTTTGGC
TTCCTGATTGAATCATGGTGGCACCCTGGCTGCCGAGAACTGTTGCAGCCGTTTCGAT
GCCGTCTGAACGATTGTCCGTATGGTTTTCCAGCCATTCCAGCACGCCGCCGCGCTTTC
GAGTCCGGCGGTGTGTCAGGAAAACAGCGTGTCTGCGCGTCTGCTGATGGCGGCTTC
TTCGACATGACGCGTGGTGGTATGGGGCGTTTTTGAATTCGCCGAAACCGCTGTGCGCAA
AAGGGTACGACAGGAGCGAGGTTTTGCCGGTGTGGTGTGTCGACGACGGCGAGGGAAG
GGGTGTTTTGTTTCATGATGTTTTGAAGAATGGATTTTCAGACGGTCTTTTTTCAGAAATG
GCGGCTTAACAGAACATTTCAAGTGAGTTTATTGGTCTTTCAAACGCCCTTCTCGCGCG
CCCTGTGACGGCTCAAGCCACGCCGCGCGCATTCGGCCAGCGGTTACGCCAATGTTCCA
GCTTTTCCGAAAGGTGCTGTGAAAGCCCCGTTCGCCCAAAGCTGCACACCGCGCGCGC
CCTGCGCGCTTCCGAGGTCCGACAATCTGCCGCAACAGCGCGGTCCGGCACAGTTT
GGGCGCGCACGCCGATAAGCAGTTGCGCCGGTTTTCTGCTTCAGCTCTGTCTCCAGCGCGG
CAACCTGTTCCCGATTGTTGGCAACGCCCTTATCCAGCCATTCTGCGCCAGCCTGCCCT
CGAACCATTCGCGCTCTGCCACTCGGTCTCCAGCATGACCGCCCATTTCCGGCGCATCGT
TCAAGATGATTTTCGTTGAAACGGCGGACAGGTTTCCGACGCGATCCGCATCGGTGA
TTTTGTTCTGCCAGCGCGGATGACCGCTGATAATAGGGCTTTTCCAAATCCAATCCGT
TTTCGCTTGTTCGTTCAAAGGATTTTACACTACCAAGCCAGCAGGCGCGGAGGATGC
CGTAGCGGCGATCTGCCGACACGACGCCCCGACCAAGCCGCGATCCGCAATATGTC
CGTTCAGACGGCTTCGATGACCGCCGCGCATCGGGGACAGGAAACCGAGTTTCGACG
GCAGCCATGCCAACATTTCCACCGCGCGTACCGAAGCGGCATTGCTCAACAGCGTGTCTT
CCCAGTTGAACGTATATTGCCGCAACAAAGCAGCAACAATACCGACACGAGCATTCGGA
GCAGCGTGCAGAGCCACAGGCTGTGCGACGTTGCGCTTATTTCCAACGTACCGAAGGTT
GCCGCCACTCGTCCGATACAGCCGCAACACCGCTGATTTACAGGCTCTTTGCCCGGAA
ACCACGTGCGCGGACTGCTGAAAAACGCCCCACTTTACACGCGAGGAACAACATTGCCA
ACCATAGTCCAGCATCAGCGTATTCATGCCCAACAGCGCCGCAAAACCAAAAAAGAAAT
TCAGACCCTGATTGTCCATTAGAAGATAAGTGACTGAAAAACCGGTAAAAAATGCAACG
TCGCGCGCACCCACCAACAGAACGACCCGCGACGACAGTTCCAACGTCTCCGCA
GCATACGGTTCTGCTCAATCATCTCGCCCGACGGATGATTTTTCTCCGTACTGCGCT
CCACGCGGCGAAAGCCTCCGTCGCTGTACGGGATCGCCGCTGAAAAATAAACCGCCTT
CGTCCAAAATACGACACGCTCAACAGTTTTCGGGATGGATTCAACATAAAATGCCGTC
TGAAAAATAAAAAACAGATTTTAACACACGCATTTTCAAGAATATTACAGTGATAGGCAA
GAGTAAATCTCACACAGAGCAAAAGTATCGGCGTAAACTGACTGCTCTACTTTCCCGA
AAGATTGTGCGATGTATACAGGCAACGCTTCAATACTTACAGCCATTTGAGCGGTTGA
TTCTGGCGGCGGAGGTTTGGCGCTGATGCTGCTGAAAACCATAGGACACGGGACGGCT
ACCGTATCTTCACGCTATCGGTTTACGGCATCAGCCTTCTCTGCTCTATTGAGTTCTC
CGCTGTACACGGAATTGCAGCCGGAACCTGAAAAGCATTTTGAATAAACCGACCACT
GCATGATTTATGTGCTGATTGCCGAAGCTACACACCGTTTGCAGTGGTTCTTTGAGAA
ACGGGCGCGGCTGGACGGTATTTTCACTGTCTGCTGCTGGCGGCTGCAGGAATCGCAC
AAGAATCACCATCGGACGAAAGCGAAAAACGCTCTGCTGTCTATTGTGATTTATGTCG
TCATGGGTTGGATGGTCTTGGCGGTAATGAAATCCCTGACAGCCTCACTCCCGTCGGCAG
GACTGGCTTGGCTGGCGGACGGCGGTATGCTGTACAGTGTGCGCATTTACTGGTTTGTA
ACGATGAAAAAATCCGACACGGGACGGAATCTGGCATCTGTTTCGATTGGGCGGACGA

Appendix A

-382-

TCACCCAATTTGTACGCGTGTACGGTTACGTAATCTGAATGCCGTCTGAAAAGCAAAACC
TCCCGTTCTCTGAAGATTGGGAGGTTTTCTGTTTGCCGGACATCAGCCCTTGTCTGTGGAAC
TCGTGGAATTCATAGTATAGGACAAATCCGACCCGCTTTTCTGTGCCAAATAATCA
TCATAAATGGCGCGGATTTCCTTACGCAACAAAACAGGGCTATCAGGTTGGGGATAACC
ATAAAACCGTTGAACATATCCGACAGACTCCAAACCAAATCGACTTTGCCGAGCGTACCC
AAAACAATGGCAAGCAGAACCAATGCGCGATAGATGCCAAGTGTCTTCCCTGAAAAGA
AAACGGATATTGGACTCGCCGAAATAATACCAACCGATGATGGTGGTGAAGGCAAGAAG
GTGAGACACACGGCAAGCAATTGCGAACCAGCCCGGAAATGCCTTGTAAAGGCAAAAT
TGAGTAACCGCCGCGCCCTGTTCGCCCCGAAAGGTTGGCATCGGTGACGAGGATAATCAAT
GCCGTAGCCGTACATACCAAAAATCGTATCGATAAAACACACCGACAAATGCCGCCATACCT
TGCTGCACAGGGTGCTTCACATCCGCAGTCCGCTGGGCGTGCAGGTCGAACCCATACCT
GCTTCGTTGGAACACAGACCGCGCCACGCCGAAACGTATCGCTTCGCGCATACCGATA
CCCGCAGCACCGCCCAAAACGGCTTCGGGATTGAAGCGCGGTAAGATGTGGTTGAAC
ATCGGCACAATATGGTCGGAATAATCAAACAGGATAACGACGGCGCAGAAAATATAACA
ACCGCCATAAACGGCAGCAGCAAAATGGGGCATATTGGCAATACGGTTCACGCCGCCAATC
ACAACCATGCCCGCAAGGACGGCAAGCACAATACCGACTGCCAAAGAAGGCACATCAAT
GCAATGGTAACCGCAGAACGCAATGGAGTTTGCCTGTGTGCGATTACCGATAAAGCCCAAT
GCGATAATCAACGCAATGGAAGAAGAACCGGACAAAAACGCGCCGCGCCCTGCCGATT
TTCGGAGTCAGACCGTGGGTGATGTAGAACGCCGCGCCCGCGATGTATTGCCGTGGCTG
ACGACGCGGTATTCTGCGCCAGCAGTGCCTCCGCAAAAATCGTGGACATCCCAAAACG
GCAGAAACCCACATCCAAAAAATCGCGCCCGGCCCGCTGCCGTGATGGCGGTGCCACG
CCGGCAACGTTGCCCGTACCGATTTCGCGAGATATGGCAACCGCCACGCCCTGAAACTGC
GATAAAGACTTGTGCTCTTATCGCCTTTGGCAACAAGCCGCGCAATACGGATTGTAAT
CCCGCGCCAGCTTGGTAATCTGCGCGCACCAAGATACAGCGTAAAAAACAGGCCGATA
CCCAAAAGCGCGTAATACAGCAGGTAGTCCCAAAGGAACCGATTGACTGTACCCACCAGA
ACAGACAATATATTTCCATAAAATAAACCTTATCTTACAATTAATGACTGCCTTCCA
AAAGACATTCCAATAAGGAACACGCGCAGCAGACCGTATTGCGCGAACAGATGCCCTTA
AATTGTCAACAATCGGGGAGAAGCTGCGCCATCATACCGTAAATATCGTTAATTAAC
ATTTCTTTATTTTAAAGCGGAAGCGGAGGAAATCGCTTTCAGACAGCATAGACAACGGC
ACGGCATAAACAGGATATTTGGGTACTTGCACTTATGTTAAATGCCGACCGTAAAA
AATCTGACAAAAACAGATTAAATTTGAAATAAGAAAGGAAATTTATGGCAGGCCATAG
CAAGTGGGCAAAATATCCAGCATAAAAAGCCCGTCAGGATGCCAAACGCGGCAAAATCTT
TACCCGTTAATCAAAGAAATCACCGTTGCGGCGCGTATGGGCGCGGCGACCCCGGTTT
AAATCGCGCCTCGCCTCGCTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TGTGCAACGCGCCATCGACAAAGGCACGGGCAACTTGAAGGCGTGAATACATCGAGTT
GGCTACGAAGGTCAGGCATCGCGCGCGCGGCTTGTATGGTGGACTGCCTGACCGACAA
CAAAACCGCAGCGTTGCGGACGTACGCCACGCGTTACCAAAAACGGCGGCAACTGGG
TACCGACGGCTGCGTGGCGTTCAACTTCGTGCATCAGGGCTATTTGGTATTCGAACCCGG
CGTTGACGAAGACGCGCTGATGGAAGCGGCTTGGAAAGCCGTCGCGAAGACGTGGTTAC
CAACGACGACGGTTCCATCGAAGTCATTACCGCGCCAAACGATTGGGCGGGCGTAAAAATC
CGCTTTGGAGGCGGCGAGGTTACAATCCGTTGACGGCGAGCTTACGATGCGCGCCCAAA
CGAAACCGAATCTCCGGCGACGATGCCGTCAAATGCAAAAACGATTGACGCGCTGGA
AGACTTGGACGAGTGCAGACGTTTACACTTCCGCGTATGAACTGGAATCTGGACTGATACGC
AGCACAGCAGACATACAATAAAATGCCGTCTGAACCTTTCAGACGGCATTGATTATTTA
GCCCTTGGCCACGCCACCAAAACCGTCAGGACAACCGCCAGAAAATACGCCACGCTCCAA
ACAGGCAAGCAATTCAGCAGATAATCCGGTTTACGACCAATTTCCGAACCCGCGCAGC
ACAGGCTCGAACCAATCAAACAAGGCCAGCCTTCAAGCGGAACGTCACGGCGCGCCG
CAGCAAGGAGCGGTTCCCGCGGCGAGCGACTGCAACCACTGATATGCCGCAACAGAA
ATACCCGTAACGGCGGGAATGCTGATAAAGACAGCACCGAACAACCGCCTGCCCTTCTT
CTTGGTCTGCACATCAGGACAATTCGCGTACACAATGCGGTTGCCAAAACGCATAACCGC
TGACTGATACACAAACGCAAAAGGCTCCATACCCAAAACATACTGTGCCGCCAAAGAACC
GCAATGCACAGACCGAAGCGGCAACAGCAGCCAAACGGCTTTTCTAATAACGGGGTC
ATTTTCTCAACACCAATCAAAATACCGATATGCCGATTTTGTGGATATATCCCGAGA
TGGCAAGGACAAAACGGCGATTGCGCGCACAAATGCCACAAAAAATACATCCGAGG
ATTGAAATTTAGCAAAATTTAGCGAATCAAAAGTTTATTTCAATGAAATCATATGATTTT
TTTGAATAAGCGGATTGATGGGTTTTTGAAGGAATTTGTTACCGGATAGCCATCGGGCAA
GTTTTTTGCAAAATTTGAATCGGTTCGGGTAAATTTTCAAAAAATAATTGACAGCGGATAA
GAAACGGCGGATAATTCGCGCGTTCGAGTTGCTTGATGACGCTTGATTTTTCTCCTCTAT
TTCTCCTTTGTAGACTTGGCACACATTCACTGGATGTGTGCATTTTTTTATCTCCGCTT
TTTTTGAATTTAATTACTTTTATGTTTGAATTTCCATTCTTAAAGAAATTAACAAGA
AAAACGCTTGCTTTTGACCGGAAAAGCTGCATAATTCATTCCGTTAGCTGGTTTCAGTA
GTCAGTTAATAGTTTCTCCTCTATTTCTCCTTTGTAGACTTGGCACACATTCACTGGAT
GTGTGCATTTTTTTATCTGAAGCAACAAGCCTCTGTGCGTGTGTTGTTATGTTTCATTT
AGGTGTCAAACCGCATATCCGGTCTGAAATATTCAATCAAATCAAACCGGATTTTCT
TTGACCTCCTCCATCACACATAACTCCTACTCTCGAAGCGGCGAGGAGTTGCAATAGG
ATATTGCCATAGCATATCCGATAGGCAGACATATCGGGCAACGTACTTTAATCAGATAG
TCGTATTCGCCCCGACCAAGTGGCATTCATAATTTGCGGAATTTTACGACTTCTTTT
TTGAAATCTTCGAAAATATTGCCCGATTGGATTGACGCTTACGCTCGACAAAACCAAT
AAAGGTTTGCCCAACAGATGGGGATTGAGATGGGCGTGATAACCGGAAATATAATGTTCC
CGCTCCAACCGGCGCACCTCTCTGTAACGGGCGTGGTGGACAAGCCTACCTTCTCGGCA
AGCTCCGTATCGGGATCGGGCATTCGTTGAAGGATCTTAAGGATGCGGAAATCGATT
TATCTAGTTCTTTTATTTAGATTGCTTGTATTTATTTATTTATTTAATCAAAATAGAGTA
TATAGTGGATTAACAAAACAGTACGGCGTTGCCCTGCGCTTGCCTACTATTGTACTG
TCTGCGGCTTCGTCGCTTGTCTGATTTTTGTTAATCCACTATATATTGAGAAAGCGA
TTATATCAGGAAAAGCAACCCCTTCTACCTGAAAACGCTGCTTCGGCTTGAAGACA

Appendix A

-383-

CAAGGTTCTTTAATATTTTAAAGCCTTGCCGTTGGATTATAATCCCCAACCGATTCT
TAATTTTGCTAATAAACACTTGCTTGGTAAGGAATGAATTTATGCCCTTTGAACGTGC
AGATCAGGTTGGGCAACCTTAGGCACAATATCGGATTTTGAAGGAAATGCACGGAGGCA
AACTGTTGGCGGTAGTGAAGGCCGACGCATACGGACACGGTGCGGTGAGATGTGCTTTCG
CGCTGGCAGACTTGGCAGACGGCTTTGCCGTGGCGACAATCGATGAAGGAATCAGGCTGC
GGGAGAGCGGCATTACCATCCGATTGTCCTTTTGAAGGCGTATTGAAGCATCGGAAT
ACGAAGCGGTGCGAACAATCTCGCTTTGGCCGGCAGTCGGAAACCAATGGCAGCTTGAGG
CTTTGCTGATCCGCCATTGGAAAAAACCGTCAAAGTCTGGTTGAAATGGATTGGGGGA
TGCACCGTACCGGTTTTTCCCTCATGATTACGCTTCGGCATATGCGGCATTGAAGCAGT
CGGAATATGTGGACAGTATTGTCAAATCTCGCATTTCTCTGTGCGGACGAACCCGAAA
GCGGTATGACGGAAATACAGATGGAAGCATTCGATTGGGTACGGAAGGGCTGGAAGGCG
AAGAAAGCCTTGCCAACCTCCGCCCTATTTTGAATGTTCCCGAAGCACGCAGGACTGGG
GGCGCGCGGTCTGGCGTTATACGGCATTTCCCGTTTCGGAGGAGGCGATGACAGGCTGA
AGCCCGTGATGAGGCTTTCAACCCGATTTCGGCGAACCGGTTTTACAGCCGCACTCCC
CTATCGGTTATGGCGCAACATTTTATACAGCAAATCTACGCGCGTCGGCTGATTGCCT
GCGGTTATGCGGACGGTTATCCGCGCGCGCCCCAAGCAATTCGCCGTCGCTGTCGACG
GCAAAATGACCCGGTCTCGGCGAGGCTCTCTATGGATATGATGACCATCGAGCTGGATG
CTTCGCAAGAAGTTTGGGACACGAGGTGCAACTGTGGGCGATACGGTCAACATCAATA
CCGTTGCCGAAGCGCGCGGAACCATCCCTTACGAATTGATGTGCAATATCAAACGTGCAA
AATTCATTATATGACAGTAACTCAAGTCCAACGAAATGCGCTCTGAAGCCTTCAGACG
GCATTTCCCATCAAACCGCAATCAGTTTTTCATCGATTGAACCGGAGCCGGAATCTG
CCGCCTCGGTTGACGAATCTTCGCACGAACCTTCTTGACCGGCATCACAGGCGCGTAG
CCCAACAAGCCGCGCACTCGACGCTGTCGCGCAGGTTTTACCGTTACCGGAATAATG
CGCAGCGCAGTGGTTTTGCTGTTGATCATGCCGATGGCGGCTTCGTCGGCAATGATCCG
GAAATGTTGTGCGCGGGGTGTCGCGGGGAACGGCAATCATATCCAAGCCGACCGAACAA
ACGGCGGTATGGCTTCGAGTTTGTCCAGCGTCAGCACGCTGCTTCGGCGGGCGCAATC
ATACCTTCGCTCTTCGGAACCGGGGATAAACCGCGCACTCAAACCCCGACCGCGCTGAA
GCCATCATGCCGCTTTTTTACGGCATCGTTACGAATGCCAAAGCTGCTGTTGTGCGG
TGCGTACCGCAGACGCTCAAGCCCATTTCTTCAAGAATGCGTGCCACTGAGTCGCCGACG
GCGGGGTGCGCGCCAGCAAGTCGAGAATACCAAACGGGATATTCAGCATTTTTGAG
GCTTCGCGCGCGATGAGTTCGCCCACGCGGGTAATTTGAAAGCAGTTTTCTTCACTACT
TCCGCAACTTCGGTCAATGTCTGTCATCTGAATTTTCCACGCGCTTTTACGACACCT
GGGCGGATACGCCGACATTGATAACGGCATCCGCTTCGCCCGAACCATGAAACGCGCCC
GCCATAAACCGGTTGTCTTCCACCGCGTTGCGAAGACGACAATTTAGCGCAGCCGAAA
CCTTCGGCGGTGATTTCCGCCGTGCGTTTACGGTTTCGCCCGCAGCTTGACCGCATCC
ATATTGATACCGGCACGGTACTGCCGATATTGATGGAGCTGCACACAATATCGGTAGTC
TTCATCGCTTCGGGAATGGAGCGGATTAACACCTCATCCGAAGGCGACATCCCTTTTGC
ACCAACGCGGAAAAACCGCGATAAAAGACACACCGATGGCTTTGGCAGCTTTATCCAAA
GTTTGGCGCCACGCTGACGTAAGAAATCAGCATGGGTGGCCGCCGCGATTTGGGCAATCGGC
GTAACGGAAATGCGCTGATTACAATCGGTACGCGGATTTGGCAGACAGATATTTGCC
GTAGTGACCAAGTCTTTTCCGACTGTGGTAATTTTATTGTAAATATTTTGGTTCAACACA
TTGATATCGCTGCTGATGCAGTCGTGCAATCAATGCCGATGGTAAATGGTGCGGACATCA
AAATTCGGTTCGGCAACCATTTTACGGTTTTCTAAAATTTCCGCCGATTGGATACTCATC
ACATTCCTCCAATCGCTTTCGCGGTGTCATCGCTTGAAGATTTCTTCGTTTTGCATACGGA
TATCAAGCGCGAGTTTTTGTCTCTTCCGCAACAAATCCAAACCTCTTGACGCGATT
TGCTGATTTTTGAAGTGTCCACCAAGATAATCATAGTAAAAAATCGTCCATCAGCTGTT
GGCTGATGTTGAGAATATTGATTGGTTTTCCGCCAAAATTTTGGAAACATCGTACACGA
TGCCGACGCGGCTTTTACCGATGACGGTGATGACTGAATTTTACAGGCTTACTCCTTG
CAGATATCCGTTAAAGTCCGAAATATACACCGTTGGATTTTGAAGAAATATTGTCAAC
AATATATACATACAAATGCCGTCTGAACTATTTTACAGACGATCAAGATTCAGGGTTC
GATTAATAACCATCTTCTCCACTGGGTTTTCTGACCACTTGTCTCTGATAAAC
AGCTTCGCTCTTTTAGAACCATCTTCATACCACTCCAAAACACCCCGTTGCGTTGATG
GTGGCGGATAGACAGTTCGAGAGTAATCGGCCGCTTTTCATCCAGTCAGAATTTTGGC
AGGCTCATCGTTGACATAACCATTTCCGTCTTGATACTGCCGTCGGCATAACATTGCTT
CCATACGCGGTTTGCCTTATTTGCTTAACTGGATTTTCGCTTTCTTGCCGCGGTTACG
GTAATAGCGGTATCCCGTACCCTCAAGCCATTTTTATAAGGCATAACGGCAGATTT
TTTACCGTTTCGGATACAGTTGACCCACTCCCGTCCGGCTTACCCTTGCTGAAGCCCC
CGCCATTTTTTCTGACCATTAATAATGCCACAAATCAACATAACGTTTTGACGGGTAGG
CACAAAAGATTTGATTTGCGTTGAAGCAACGATATAAGGTCAGAAATTTCTTCATCGA
CGGATAATAAAATCCTGCGCGTGCAGTAATCCCGCCACACATATTCGCTGATATA
AGCGGCAGAAGACATCGTCGCCGTGAGCTTTCGTTCTGATTAAATAAACAGAAATAGT
CTGCGCGCGCAAGCGCGCGAAAAACCAACAGGACAGTTGAAAATACAATCCGAGATAA
TTTTTTTCATTGCAATAGCGATATAAAACAAGGCTGTGTTTAGTAATCTGTTGATTCA
ATTATTTGAAGGAGGAAAAAGCAATATTTTCCGTTAGGAATAAACCTATTCTATTGAAT
ATATTGAAGCGAATGACGCTATCAACACTATATAAAACACTGCCAAAAACAATTAAC
TATAAACAAATATGGTAAGGATTTCTCTGCAAGCATCAAACCGAGACAACGTATCGTAA
AAATGCGGTCTGAAAACAAATCGTCTTCAGACGGCATTTCCCTTCACTCACTCTTAC
CCAATAACTGCTGCGCGCTCAAGAGGAAAAACAACCGTCGCCCGCGCTGGTTTCCAACC
AAGTAAAAGGCAACTCCGGATACGCTGCTTCCAATACATCCCTGTTATGCCCGATTTC
CCAGCAATACACCTTTGGGATTCAGAACTTTGCCGATTCAGAGAATCTGCCTGGTGG
CATCCAAACCGCTCCGCCGCTGCCAATGCCAATTCGGTTTCGTGCAAACTCTTCAG
GCAATAACTCAACCGATTCCGCATCCACATAAGGAGGATTGGAACAATCAAAATCATAAG
TGCCTTCCAATCCTTCAACAAATCCGTATGAATAAGCCGGATGCGTTCTTCCAACCAT
AATCTTCGACATTAATCCCTGCCACTTCCAAAGCATCAAGCTCACATCAACCGCATCAA
TTTGGGCATCAGGATAATGATGCGCATCTGAATGGCAAGGCAACCGCTTCGGTGCAAA

Appendix A

-384-

GATCCAAAGCATTATGCACCAACTCATCGTATTCTATCCAAGGACGAAGTCCGTCACCCA
ACAATTTCATAATAAAAAGAACGAGGTATGATTACGCGCTCATCCACATAGAAATCAAACCT
CTCCCTGCCATGCCTGGTGTGTCAAATAAGCGGCTGGAATGTGTTGACAGCACGACGCT
CAATAACCGCCAGCACTTCTCTTTTTCAGCTTCCAAGAGTTTTCATCAAGATATGGGG
CAAGCATATCCAAGGCAAATTCAAAGTATGCAGAAATCAAATAAGCTGCTTCATCATGCG
CATTATCTGTTCCATGACCAAAAAAGAGCCCTGCCTCATTAAAAACGGCTGACTGCAAAAC
GTAAAAATATCGCGGATAGTCGTCAATTCTTGTGCTGCCTGATTAACATAATATGAACCA
TTCTGCGTATAGATACTTTTAATTATAACAGAAACAACAAGCAAACCTTTTCATATCGCC
AAATAACCAACCAATCTACCCATACAACCTACATAAATGCCCGCGCGAAACCATCGCCCG
AACGAAACGACATATGGCCGACGGTATGGCAATCTGATTGGCTGGGAAAAACGGGGCT
TGTTGTGCGTAAGCAGTGGATAACCGCAAAAGACGACAAGGTGTCCGATGTCTGCAATGC
CAACGGCGAGATGGGCGTAATCGGGCTTTACGAGCCTTTCTCACACGGCGCATTGACGAT
ACCCGGTCATCCGAAGTCCGATGCGAGGTGTTTCCGATCGGGTGGCGAATTGGGGGA
ATTTGCCGAAAAAAGGAGCTTCGTAAAGCGGCTATGCAGTATGCGCGGGATAACTTTAT
CGGCAAAAGCTATGTCAATAAAAAACAGCGGGCATGAAGTGAAGGTAACTTGGCAAGGTGT
GAAACACGCTGCGTCAAAGGCAATCAGCGGGAATTATCCATCATGACAAAACCTTGATGA
CTTATTGCGCTACGCAAAATATGAGGGTTCTTATTCGGATAGGAAAGGTCATCCTAATAT
TATTGCAGCACATAAGTATCGTGCCGTTGCCAAGGTTGGGAATGAGTCTTTAAATATCGG
TGTGATTGTAAGGGAATTTCCAGACGACCATAAACATTACGACCATTTTCATCTTGAAGGA
TGAATAAAGCCCTTTTGCACTGTCTGTTCTGGAGCGGATAGCGTTAAGGCAAGTACACTTC
CAGCCTTGAAAAAGGGCTTTTAAATTCAGCATGCCATTTATACAGGCGAGGATAAACCCAT
GACAAAGTTATACGCAGAAATCGCCAAGATGGAGACGACGACGACGACGCGTCAAGGT
TTGGGGTTACGCTTCAAGCGAGGAAATCGATTCCGACGGCGAAGTCATCGCGGCGGCGAGC
TATGAAGCGGGCGGCTTCCCGATTATATGAAGTTTGGCGCGGGCGGAGATGCACGGCTC
AAACGCTGCGGGAAACGGCAATTGAAATCAACGTGGAAGATGACGGCAGAACCTTTTTCGT
GGCGCATATCGTCGATCCCGTTGCCGTGACGAAGGTCAAACAGGCGTTTACAAGGGCTT
TTCCATCGCGCGGACGCTTACCGCCACGATGAGTTGAACAAGTCGCAAAATCAGGGGTTT
GAAGCTGACGGAATCAGCTTGGTTGACCGACCCGCCAATCCCGATGCGGTGTCTACCTG
CTTTAAGCGCGGCAAAAGGTGCGGAAGCGGTAAACAACGATACAGAACATAATGCTACATA
TTTTAGCCATTTCCTTTCCAAACAAAAAGCACCAGCGCGGCGGATGCCCTTTCCCTTTA
CAGGTTCCCTTATTTTTCCTCGCGGGCAGCACCGGTTTGGCTGGGGCTTTTGGTGCGGG
CGCGCCGACCGAAGCCTGGTCTTTCAGCTTCGCCAGCACCGCAGGGCGGATGCCCTTTAC
CTTGGTCAAATCGTCTACAGACTTGAACGACCGGTTTGGCGACGGTATTCGCGCAATGGC
CTTCGCTTCGCGGGGCTATGCCCGGCGAGCGCTCCAACTCCTGCTGCGAAGCGGCTT
GATGTTTACCGCGCAAGGGAGAAGGCGCAGGAGAACAGCATACAGAACAGCACGAACAT
TTTCTTCATGGTTTTTCTCTTAAGGGTTGCAACAATAAACCGCATCTTGCAGCATAAAA
ACGAGTCATTCTAAATGAATATCCCAAAGTTTCAAGCCGTTCTTCCGCAAAACCGACCG
GACACCGTACGGATGCCGTCCCGCATCACCGACATTTTTCGCGGCAAGCAAAACATTT
TTTCCGGGCAAAAGCAAAACCCCGAATAATCGGGGGTTTTCTGAATGGGTGTTTGGCAG
TGACCTACTTTTCGATGGAAGAACCACACTATCATCGGCGCTGAGTCGTTTACAGGTCTT
GTTCCGGATGGGAAGCGCTGGGACCAACTCGCTATGGCGGCCAACTTAACTGTTACAA
ATCGGTAAAGCCTTAATCAATATATTCGGTAATGACTGAATCAGTCAGTAAGCTTTTATC
TCTTGAAGTTCTTCAAATGATAGAGTCAAGCCTCAGGACCAATTAGTATGGGTAGCTTC
ACGCGTTACCGCGCTTCCACACCCACCTATCAACGTCTGCTCGAACGACTCTTAG
TGCGGTTAAACCGCAAGGGAAGTCTCATCTTCAGGCGAGTTTCGCGCTTAGATGCTTTCA
GCGCTTATCTCTTCCGAACCTAGCTACCGGCTATGCAACTGGCGTTACAACCGGTACAC
CAGAGGTTCTGCTCACTCCGGTCTCTCGTACTAGGAGCAGCCCCGTCAAACCTTCCAACG
CCCACCTGCAGATAGGGAAGCCCAAACTGTCTCACGACGTTTTAAACCCAGCTCACGTACCACT
TTAAATGGCGAACAGCCATACCCTTGGGACCGACTACAGCCCCAGGATGTGATGAGCCGA
CATCGAGGTGCCAAACTCCGCGCTCGATATGAACCTTTGGCGGGAATCAGCCTGTTATCC
CCGGAGTACCTTTTATCCGTTGAGCGATGGCCCTTCCATACAGAACCCAGGATCACTAT
GTCCTGCTTTTCGCACTGCTCGACTTGTGCGTCTCGCAGTTAAGCTACCTTTTGCCATTG
CACTATCAGTCCGATTTCCGACCGGACCTAGGTAACTTTCGAACCTCTCCGTTACGCTTT
GGGAGGAGACCGCCCCAGTCAAACCTGCCTACCATGCACGGTCCCCGACCGGATGACGGG
TCTGGGTTAGAACTCAAAGACACCAAGGTTGTTTCAAGGACGGCTCCACAGAGACTG
GCGTCTCTGCTTCTAAGCCTCCCACCTATCTACACAAGTGAACCTCAAAGTCCAATGCAA
AGCTACAGTAAAGGTTACGGGGTCTTTCCGTCTAGCAGCGGGTAGATTGCATCTTCACA
ACCACCTCAACTTCGCTGAGTCTCAGGAGGAGACAGTGTGGCCATCGTTACGCCATTCTG
GCGGGTCCGAACCTTACCCGACAAGGAATTTGCTACCTTAGGACCGTTATAGTTACGGCC
GCCGTTTACTGGGGCTTCGATCCGATGCTCTCACATCTTCAATTAACCTTCCAGCACCGG
GCAGGCGTCACACCTTATACGTCCACTTTCGTGTAGCAGAGTGTGTTTTTAATAAA
CAGTCGACGCCACCTATCTCTGCGACCTCCGGGGCTTACGGAGCAAGTCTTAACTT
AGAGGGCATACCTTCTCCGAAGTTACGGTATCAATTTGCCGAGTTCCTTCTCCTGAGTT
CTCTCAAGCGCCTTAGAATTTCTATCCTGCCACCTGTGTGCGTTTGGGTTACGGTTTCA
TTCAAACCTGAAGCTTAGTGGCTTTTCTGGAAGCGTGGTATCGGTTGCTTCTGTGTCGTA
GACACTCGTCTCACTTCTCGGTGTTAAGAAGACCCGATTTCCTAAGTCTTCCACCTA
CCGGCTTAAACAGCTATTTCAACAGCTTGCCAACCTAACCTTCTCCGTCCCCACATCGC
ATTTGAATCAAGTACAGGAATTAACCTGTTTCCATCGACTACGCAATTTCTGCTCGC
CTTAGGGGCGGCTACCTACCGGATGAACGTTGCGCAGGAAACCTTGGGCTTTTCGGC
GAGCGGGCTTTTACCCGCTTTATCGCTACTCATGTCAACATTCGCACTTCTGATACCTC
CAGCACACTTTACAATGCACCTTTCATCAGCTACAGAACGCTCCCTACCATGCCGGTAA
ACCGGATCCGCACTTCGGTTATAGATTGAGCCCCGTTACATCTTCGCGCAGGACGA
CTCGACAGTGAGCTATTACGCTTCTTTAAATGATGGTGCTTCTAAGCCAACATCTG
GCTGTCTGGGCTTCCACTTCGTTTACCACTTAATCTATCATTGGGACCTTAGCTGGC
GGTCTGGGTTGTTTCCCTCTTGACAACGGACGTTAGCACCGCTGTCTGTCTCCCGAGGA

Appendix A

-385-

ACCACCTTGATGGTATTCTTAGTTTGCCATGGGTTGGTAAGTTGCAATAACCCCCCTAGCCA
TAACAGTGCTTTTACCCCATCAGTGTCTTGCTCGAGGCACTACCTAAATAGTTTTCGGGG
AGAACCAGCTATCTCCGAGTTTGTAGCCTTTCACCCCTATCCACAGCTCATCCCGCA
TTTTGCAACATGCGTGGGTTCGGTCTCCAGTACCTGTTACGGCACCTTCAACCTGGCCA
TGGATAGATCACTCGGTTTTCGGGTCTACACCCAGCAACTCATCGCCCTATTAAAGACTCGG
TTTCCCTACGCCCTCCCCTATTCCGTTAAGCTCGCTACTGAATGTAAGTCGTTGACCCATT
ATACAAAAGGTACGCACTCACACCACTAGGGCGCTCCCACTGTTTGTATGCATCAGGTTT
CAGGTTCTGTTTCACTCCCTCCCGGGTCTTTTCGCCTTTCCTCACGGTACTGGTTC
ACTATCGGTGATGATGATATTAGCCTTGGAGGATGGTCCCCCATATTTCAGACAGGA
TTTACGTGCCCCGCTTACTTTTCGTACGCTTAGTACCGCTGTTGAGATTTCGAATACG
GGACTGTCACCCACTATGGTCAAGCTTCCAGCTTGTCTCTATCTCGACAGTTATTAC
GTACAGGCTCCTCGCGTTCGCTCGCCACTACTTGCAGGAACTCTCGGTTGATTCTTTTCC
TCCGGGTACTTAGATGGTTCAGTTCTCCGGGTTCGCTTCTCTAAGTCTATGTATTCAACT
TAGGATACTGCACAGAAATGCAGTGGGTTTCCCATTCGGACATCGCGGGATCATTGCTTT
ATTGCCAGCTCCCCCGCTTTTCGCGAGCTTACACGTCTTCGTGCGCTATCATCGCCA
AGGCATCCACCTGATGCACTTATCACTTGAAGTCTATCATTTCAAGAACTCTTTGACTT
TGCTTAACATTCGTTGATGATGAACATCAGACTTGAATTTCTACTTTGATAAAGCTTAC
TGCTTTGTTGTCTTAATCCTGCCTTTTGTGTTTCAGGATTAAGTCGATACAATCATCA
CCCAATACTGTGTTTGTCTTTCTCTCTGCGAGAGATTTTATCCTTTGCAAGAAT
AAAAAATCAAAACAACGCTTTGTCTTTGTTTGTGATTTCGGCTTTCGAATTTGTTAAA
GATCGATGCGTTTCGATATCTGCTATCTACTGTGCAATCAAAACGAGCTGATTATTATATC
AGCATTTTGTCTTGGTCAAGTGTGACGTGCGCCTGAATGGATTCTGTTCCATTCTCCG
TTTTGATTTGTACAGTATTGGTGGAGGCAACGGGATCGAACCGATGACCCCTGCTTGC
AAAGCAGGTGCTTACCACTGAGCTATGCCCCGCTTCTTGGTGGTCTGGGAGGACTTG
AACCTCCGACCCACGCTTATCAAGCGTGTGCTCTAACCAGCTGAGCTACAAACCCGGAT
TCTCTTCTTAAGCGAATCTTGCTTCACTCAAGCTTCTTCCGCTCTTTTTCAGTTTACC
GATAAGTGTGAATGCTAAAGCCTTCTTCTCTAGAAAGGAGGTGATCCAGCCGAGG
TTCCCTACGGCTACCTTGTACGACTTACCCAGTCAAGCATACCGTGGTAAGCG
GACTCCTTGTGGTATCTTACCTACTTCTGGTATCCCCACTCCCATGGTGTGACGGCG
GTGTGTACAAGACCCGGAACGTATTACCGCAGTATGCTGACCTGCGATTACTAGCGAT
TCCGACTTCATGCACTCGAGTTGCGAGTGCAGAGTGCATCCGGACTACGATCGGTTTGTGAGAT
TGGCTCCGCTCGCGGCTTGGCTACCTCTGTACCGACCATGTATGACGTGTGAAGCCC
TGGTCATAAGGGCCATGAGGACTTGACGTCACTCCACCTTCTTCCGGCTTGTACCGGC
AGTCTCATTAGAGTGCCCACTGAATGATGGCAACTAATGACAAGGTTGCGCTCGTTCG
GGGACTTAACCAACATCTCACGACACGAGCTGACGACAGCCATGCAGCACCTGTGTAC
GGCTCCCGAAGGCACTCTCCGCTCCTCCGAGGATCCGTACATGTCAAGACCAGGTAAGG
TTCTTCGCGTTGCATCGAATTAATCCACATCATCCACCGCTTGTGCGGGTCCCCGTCAT
TCTTTGAGTTTAACTTTCGCGACCGTACTCCCCAGGCGGTCATTTACGCGTTAGCTA
CGCTACCAAGCAATCAGTTGCCCAACAGCTAATTGACATCGTTTAGGGCTGGACTACC
AGGGTATCTAATCCTGTTTGTACCCACGCTTTCGGGCATGAACGTCAGTGTGTCCAG
GAGGCTGCTTCCCATCGGATTCCTTCCATCTCTACGATTTTACTGCTACAGTGG
AATTCTACCTCCCTCTGACACACTCGAGTCAACCGTTCAGAACGCAAGTTCCTGGGTTGA
GCCCCGGGATTTACATCTGCTTAAGTAACCGTCTGCGCCGCTTACGCCCCAGTAAT
CCGATTAACGCTCGACCTACGTATTACCGCGGCTGCTGGCACGTAGTTAGCCGGTGTCT
TATTCTCAGGTACCGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT
AAGTCCCTTACAAACCGAAGGCTTCTTACGACACGCGGCTGCGTGGATCAGGCTTGC
CCCATTTGTCAAAATTTCCCACTGCTGCTCCCGTAGGAGTCTGGGCGGTGTCTCAGTCC
CAGTGTGCGGATCATCTCTCAGACCGCTACTGATCGTGCCTTGGTAGGCTTTTACC
CCACCACTAGCTAATCAGATATCGGCCGCTCGAATAGCGCAAGGCCCGAAGGTCCCTG
CTTTCTCTCTCAGACGTATGCGGTATTAGCTGATCTTTTCGATCAGTTATCCCCACTAC
TCGGTACGTTCCGATGTTACTCACCGTTCGCCACTCGCCACCCGAGAAGCAAGCTTC
TCTGTGCTGCGGCTCCGATGCTGATGTTAAAGCATGCGGCCAGGCTCAATCTGAGCCAG
GATCAAACTCTTATGTTCAATCTTAACCTTTTAACTTCTGCTGCTTCAAGAAACCA
ACAGGACAATGTTCAAAACATTATCTTGTCTGTCTTTCAACAGTGTGAGACTCAAGGCA
CTCACACTTATCGGTAATCTGTTTGTAAAGAGCGTTGCGAATTATAAAGTATTCTTCT
CGCTGTCAAGATATCTCTGATATCCCCAACATTTCTGTGTATACTTTTTCAGTTCGTCC
GCCACTTCTGACGACGGAAGAACCGAATATACGCCACAGGGAAAAACGGTCAATGCT
TTCAGCGGGATTTTTTTGGGAAATTCGTATGTCGCTGTCGGAATAAGGTTTTTATTTT
TGCTAAATACTGCGCCGCTCCAACAATCTTCTCTCTCCCTCCTCCGGCTGGTGGCCT
TTGTGAATATGCTGTCTGAACTCGGGGACTCAGACGGCATTTTGTATCCAAACGGTATC
TAATGTATCCGTACTTTGTTATAGAATGGCTGCTGTTTTTCTTCGTAATTAGAAATTGT
CAAAATGGGCAAAACATATCTTTTAGGTGTAACGGGCAAGTATGCGCGGTAAAGTCTTG
CGAGTTGGTGGCTGCTGAAAAACAGGGGCTTCGGTTACGGTGGTTATGAGCCGCTC
GGCAACTGAATTTGTTTCTCCGCTGACTTTTCAGGCTTAAAGCGCAATCTGTCTGAC
CGACACGCAAGGCGCAACGGTTCAAACGGTATGAACATATCAACCTGACCCGGAATGC
GGATGTTTTTCTGATTGCGCCGGCAAGTATGAATACCGTGGCAAAATCTGTAACGGCGT
GGCAGATAACCTACTGACAGTGTGGCAGCCGACGGAATGTCCGCTTGCCATCGCGCC
CGCGATGAATGTGAATGTGCTCAACCTGCCAACCAACGGAATATCGCACAACCTGGT
TTCAGACGGCATTAATGCTATATGCTGCGGGCTTGGGCGAACAGGCTTGGCGAGAAATGG
TATGGGAAGGATGCCGGAACCTGCCGAATGCTGGATCTGCTTCCGGATTTATGGACACC
GAAAATTTTAAAGGGCAAAAAAGTCTTGATTACCGCAGGTGCGACATTTGAAGCCATTGA
CCCTGTCCGAGGATCACAAATATCTCCAGCGGGAATGGGCGTGGCTTTGGCGCGGG
GTGCCGTGCCCGGGTGCAGAAGTCAAGCTGATTACCGACAGCTTCAAACCGCGCTGCC
TTTCGGCATATCGGATACGGTTCAAGCCGTGAGTCCGGAATATGCATCGCGCAGTGCA
TCGTTTAAATCGACAAACAAGATGCTTTTATTTCTGTTGCCGCGCTCAGACTATAGGGT

Appendix A

-386-

TAAGAATAGGAGTACTCAAAAATTCAAAAAAGATAAAAATGCCAAACCGTTATCCATCGA
ATTGGATGAGAACCCCGATATTTTGGCTTCTATTGCCTCATACCGAACCCGCCGTTCTG
CATCGGTTTTGCCGCTGAACCGGAGAATGTAATGACATATGCGCGGGAAAAACGTATTAA
GAAAAAGCTACCGATGATCGTTGCCAATGATGTTTCAATCGCAATGGGCAAACCGACCAA
CCGGATTACCATATCGGGGACGACGGGGAAGTGTCTTTCCCGAAACAAGTAAAGATGA
AGCGGCAATGCGGATTGTTGAAAGGCTTGCCGTATATTTGAGCAATAAGCAATTGAACG
GATAAACCATAAAACGGGTTGCCCTGTTAATCAAAGGCAACCCGTTTACCTGCTTCAAC
TTCTGATGACTTTGCGGATATATGGAATACTATGCAGATTTGAATAATCTGATTCAATT
GATTGAGATTCTTGACTTTCAATAAGAATTTGAATTCGACAAAACCTTCCGTTCCCGACT
GGGATTTAGACGCTGTTTCGACCGACTCAATGTCTGCACCGGAATCGGAAATCGCTTGCG
CCATTAATGCCAACAGGCCGTGGCTGTCTTCCGATTGGACTTGAAGCCCGACACGGTAGT
TCTGCCCGTTTCATATTTTCCAGTCTGCATCCAGCTGCTGTTCGGGATCGGACTTCAACA
ACGTCGGGACAGGTATCCCTATGGATAATCATGCCTTTTCCCTTAACCAACAGCAACGGGA
TGAATCGCCGGGAACAGGGTGGCAGCACTCTGCAAAATGAATATGCCCGCTTTCCTGCG
CATCGACTTTAATGGAAGTGAAGCTGACCTCGCTGCCGAAATGCTCCCTGCCAAGTCCG
CAATGTGCATGGCGACATAAACAGGACAGGGTATGCCCCATCCCTACGTTGTACAGCACTT
CTTCAAACGATGCTGCTTGTCTGAGATCGGCAAGATATTTTCTTGATGCCGCTG
AAAGCAGGACATCTTTGGGACGAAACTGGACAGGGCTTTTGTAAAGGGCTCTCTCCCA
AAACGACCGCATCGTGCCCGTTAAGGTTTTTAATATATTGGCGTATGGCGCTGCGCGCCC
TGCTGACACGGCGAAATTAACACGCGGGATTGGGTTTGGCGTGTTCGGATGTGATAA
TTTCAACAGAATCACCGGTTTTGAGCTTCGTACGCAACGGCATCATGATATTGTTGATAC
GTGCGGGAACGGTTTTGTGCCCGATATCGGTATGCACCGCATAAGCAAAATCGACAGGCG
TTGCCCTTTGGGCAAAGTTAGGATTTTCTTTTGGCGTAAGGATGTAGATTTCGTTTCG
GAAACAAATCGACTTTGACGTGTTTCGAGAACTCAATGGCATTTGGCACTGCTTGCTGCA
AATCTAAGATATTTTTCAGCCACCGGTTTGTGTGAAGCAGCGCTGATCGACCGTCTTAG
AATATGATTTATAGCTCCAATGTCCGGCGATTCCACCTTCGGCAACAGCATCCATTTCCT
TGTGATGATCTGAATCTCAATCGGCAAGCCGTAAGGGCCGACCAAGTCTGATGCAGAC
TTTGATACCCGTTGCTTTTCGGAATGGCGATATAGTCTTTGAACCGCCCGGGCTTGGGCT
GATAGAGGGTGTCAATGCGCGGAGTGGCGGATAACAGGCTGGAATGCTGTGACAATGA
CGCGGAAACCGTAATATCCATAACCTCGGCAAGCGCAGCTTTTTCGCCATCATTTTCT
GATGGATGCGCGTACAGGTTTTTTTCCCTGCTTTGATTTTGGCCTTATATTCGCGCCTA
CCAGCCGCTGGCGGAATGCGCGCAAGACTTTGCCGACAACGTCCTGCGGTTCTTCCGGC
TCTTGTCCATCGCTTTTTTAAAGTCTCGTAGCGGTTGGGATGCAGGTTTTTGAACGATA
AATCCTGAAGCTCTTGATATGCGTTATTCAACCTATACGGTTGGCAATCTGTGCATAGA
TTTCAAGGGTTTTCCCTTGCAATCCGGCGGCGTTTGTCCGGGCGCATCGAACCGAGCGTCC
GCATATTGTGACAGCGGTCGGCAAGTTTACGACAAATCACGCGCACATCTTTGGTCATTG
CCAAAATCAGTTTGGGAAACTCTCCGCTGATGCTCCGCTGATCTTCAAATTTGAGTT
TTTCAAGCTTGGACAGACGCTCCACCATCTCGGCAATCGATTGCCGAACACCGCGCCA
TTTCCCTTTTGTACGCGCGTATCTTCCATACGTCGTGCATCACGCTGCACAAAGAC
CCTGTATGTCCATATGCCAAAGGGCGAGCTGCGTCGCAACGGCAATCGGATGCGTGATGT
AGGGCTCCCGCTTTTGGCGGTTTTGCCCGTGGTGGCGGCAACGATAGGCGACAGCTT
TTTCAAGCTCCGCTGTTCTCGGCTTGGGTTAGGAGGCGGATGGAAGCAGGGCAC
GCGCTTCGGCGGTACGGGGTTCGTAAGGGGCGGAAGGTTGGGGGCGGGCATTTTCAGACG
GCTTTCGGTATGTATGTTGTTTTTCAATTTCAACCGTCGGAATGCACGGCGGCAAGTGT
CCGGCGTGGTTTTCCGGCAGAAATTTATTTATTTGCGCGTCAACAGTTCTGTACCGATATGT
CCGGCGGCGATTTCCTTAAGGCGGTAACGGTCGGTTTGTATTGCGGACATCGTCCACA
AGCGGCGTGTGCGGTTCTCAAGCTGGCGGGCGCGGCGAGCCGCTACCAATGTCAGGTCA
AAATGGTTGGAATTTTTTCCGGTACAGTCTTCGGTGGTAATACGTGCCATATTATTTGCT
TTCTTTCAAAAATATTTAAATTTGGGAAACCGGGTATTTTCCGCTTTTCTAGGAATTTTC
CAACAAATCTGCAATAAACCCAGTTGCCGCGACCTTTTCAGACGGCAGGCATTACAAT
ATGGCGCAAAATCTCTCCGCTCGCGCAAGTCTGTCATTGACCACGACAAAGTCAAAACAA
TACGGACTGCTCGATTTCATGCCTTGCTTTCGACAGCTCTTTGGATAACTTCCCGACT
GTCCGTCCCGCGTCCGTTGAGGCGCGCGGCAAGTACGTGCAAGAAAGGCGGAGGATAAA
GATGCCGACGGCTTCGGGACGCGGTCGCGAACCTGCGCGCGCCCTGAACGTCGATTTC
CAAAATCACGTCATAGCCTGCGCGCGCAACGCAATTCACACCTTCCGCGCTGTGCCGTA
ATAGTTGCCAAATACGTGCGCGTATTTCAAAAAGCTTCTGCGCGATAAGCGACTCAAA
CTCTTCTTTGGAACAAAGTGATAATGTACGCCGTTTGGCTTCGCTTTCACGCGGCGGGCG
CGTCGTGTGCGACACGGAAACGCGCAACCGTTATGTTTGGCAACACCGCGCACACAG
CGTGGTTTTTCCCGTGCCGGAAGCGGCGGCAATGATAAAGATGTTGCCTTTTCGATAAGC
GGACATATTTTTTACCTGTATATTTTCCAGCCGATTGTATCACAATGGACACCCAGTTTC
TGACGGCTACAATATGGCGTTAAAAACATCAAACTTGGAAACACGCAATGCTGGTTCTATCC
CGAAGCTATGAGTGTGCGCGCGCTTGCCGACAAAATCCGCAAAATCGAAAATCGGCGGCA
AAAAGGCATCTTATTCACGACATCACGCCCGTCTTCAAAGCGCGGAATACTTCCGCT
TTTGGTTGATTTATGTTTACCGCTATATGGATCAGAAAATCGACATCGTTGCCGGGTT
GGACGCGCGCGGCTTCATTATCGGCGCGGCACTCGCTACAGCTCAACGTCGGTTTCGT
CCCCATCCGCAAAAAGGCAAGTGCCTTTTGAACCGTATCGCAAGCTACGCGCTCGA
ATACGGGGAAGCTGCGGTGGAAATCCACACCGATGCGCTCAAACCTCGTTTCGCGCTGT
GCTGGTCGATGATTGATTGCCACGGGCGGCGACGATGCTTGCCGACTGGAATGATCCG
CAAACCTCGCGGAGAAATGTGCAAGCCGCGCCATTTTGAATTTACCGACTTCAAGG
CGGCAAGAAATATCCGTGCAAGCGGCGCGCTTATTTACCTTGCTTCAAACGAAGGCTG
TATGAAGGGCTGAAATGCCACCCCTGCCGTCTGAAACCGGCGAGGTTGTTATGATGCGTTC
AAATCACGCGCAATCTTGAAGCCCTCAACACGCGCTTTCATCAACGCTGGGGCAAA
CATATTTGCGCGCTTCTTTCGCGCGCTGTTCCCGTTGCCATTCGACGCGCAACCCGA
CTTCTGACAGCATTTCCACATCGTTCAAACCGTCGCGCAACGCCATCACGTCTGCCATTT

Appendix A

-387-

CCCATCCCAATGCTTCAACCACGCTTCTGATGCCGTCCGTTTTTCGACGCACCCGAGGCA
GCAGATCGACCGCTTCTCGTGCCAGCGCACCGTTTTCAAGCCTTCCCGTTCCACAATAT
CCGACCAAAGCGCATTTTCGTTTTCTCCGCAACACAGCATCTGATACACCGGTTTGC
TTGAAAAATAATCCTTATCGGCAAAAAATCGCTGGCGATATGCTCAAGGCGGGCACA
CGCATCCGACAGCGGGACAGCGATCCCTCTCCGCCGACAAACGCATAATCCATGC
CCAAGCCATCCAATGCGCGCAAAACCTGCCCATCAAACCGGCATCCATCGGTACTTCGC
GCACGGTTTTTCGTGACGACGCAAACTGTCCGTTTATCGTTACCACGGCATCCATTC
CCGCTTCCGCCATCATATCCCTGACCTTTTCGGGAATCGTCGCCAAAGACCGCCCGTTG
CCAACGCGCTCAATATACCTTTGCGCGCAAGCCGCCACCGCGTTTTACGGAAGGGC
GCAAAGTATCCGTATATTTTCGGTACAGCGTATCGTCAATGTCGAAAAACAGATTTAG
GATTCATCACATTCTCTCTCGCATTCAACTACCGCATTTATCCCAAGCAGGCAATAC
TTGATAAATCCTTATAAATTTCCCGTCAAATTGACCGAAAATACAAAAGCGGATAAT
CCGCCATCCTCAAACCTTTTCAGACGGCATTTGCAGCAATGCCGTCTGAAACATTTTT
ACAAAGCATACAATCATGTTTCAACACACAGGACGACATAAAGCGTCGCCCTATATG
TTGCCCTGATTCCGAAGGGGTTACGCCCTCCCAAATAAAGTCTGATTCTACTGCCCTAA
AGGGCGGGGTTTTCAACGAAAAGGAAACAGATGAAAGCACCCGAACTCTTATGCCCCG
CGCGGATTGGAAGAAATGCGCGCCGCGCTACGACTACGGCGCAGACGCGCTTACGCGG
CAGCCCGCGTTACTCACTGCGCGCCCGCAACAACGAATTTGCCAACTTGATGTTTTAGA
ACAAGGCATTAAAGAGCGCACAGGCGCAACAAAAATTTTAAACCGTCAACACCTT
GCCGACAATTCAAACTCAAACCTTCGTTGCCGACATGGAGCGGCTGATTGCCATGAA
ACCCGACGCGCTGATTATGCGGGATCCGGGTTTGATTATGACCGTGCAGGAAAAATGGCC
GGAAATCGCGATCCATCTGTCGTACAGGCGAACACCACCAACTATGCGGGCGTGAAT
CTGGCAAAACATCGGCGTCGAACGCATTATCTGTCGCGGAATTGAGTATGGAAGAAAT
CGCGAAATCCGCAAGAAATGCCCGACATCGAACTCGAAGTCTTCAATCCACGCGCAT
GTGCATCGCTTATTCAGGCGGTTGCCATTGTCGGGCTATTTCAACCACCGCGACCCCAA
CCAAGGCACCTGCACCACTCTGCGGTTGGGATTACAAGTTTCAATGCCACGGAAG
CGATGCGGCGATGCCACGCTTCTGCAAGGTTTCACTTTGAAAAAGCCCAAGAAGAGC
CAACCAAACTTTGAAGGCATCAACGGTCAAAACGCCATCCCTACGCCGACAAAGTTTT
CCTGATTGAAGAAATCCAACCGCCCGGGCGAAATGATGCCGATTATGGAAGCAGAACCGG
CACCTACATCATGAATTCAAAGACCTTCGCGGTATCGAAGTCTGCGAAAACTCGCCAA
AATCGCGGTGGACAGCTCAAAGTCGAAGGCGGTACCAATCGCTCTATTATGTTGCAGC
CGTCGCCAGTCTACCGCAAAGCGATTGATGATGCCGTGCGAGGCGGTCCGTTTGATTA
CAGCCTGTTAGCGAACTCGAAGGCTCGCAACCGCGGTACACCAGCGGCTTCCTCGA
ACGCCACCAACTCAGGATTATCAAACTACCTGACCGGCATTCCACCGCAACAAAG
CCAATACGTGCGACAGCTTACCGAAATCGATGAAACGGCTGGGCAACAGTGAAGTCAA
AAACCGCTTTGCCGTACGGGATTCACTCGAAATCATCCACCGAGCGGCAACCAACCAT
CAAATTTGAACAAATGACCCGCAAGGCCAGCTGTCGATGTTGCCCGGGCAACGGCAT
TCAGGTCAAAATCCCCAATATGCGGGTAAAGAAAAAGCCCTCATCGCACGCGTGTGAA
CCCCTAAGCCATTATGCCGTCTGAAACATTTTCAGACGGCATTTTAAATCCCCTTGCTT
TATTGTGCGGCAGATTAGATCGGGACACACCTATAGTCCACGACAGAAGTCTGGCTTTT
AAGCGAAGACAATACCGGAAAGACCGCTCGGCGGTCTTTCTTGTTGACACAGTTTTTG
TATTTGTGAGCTTGATGCGTTGACAACTCTAATTCATATTGCGGAATATATTATCGAC
AGTCATCAGTTCAAAGCCTTCGCTTGGGTTTGTCGAATCAACATCCTATCGAAAGGTC
TTTGTTATCTCCGGAAGGCTTCAGCCTGTTTGTGATGAAACAGACCTATAGGCAACAT
TTCAAAATCCTCTCTTGAGACATCAAAAACTCTTCCGGTAATTTCAACAACCCCTT
GTTCTGCTTGATGGAATTTCCCAATACTGCTGCACTGACAAAGATCGCATTTCTCGG
ATTTCTATCAGTTTGCGTGAGATATCCCAAGTTCTTGTGATCCCAACACCCACAG
CAACGCATGGGTATCAAGCAATCTTTCTCAGAGAGCGACTCTCAAAAAATAAAGCT
GCCGTTTCATTGTCATCTCAAGAATACGTGAAATATCCGTATTTTCCATATGACTGAAT
TTTTTCAACCTTCTGCAATTCGTGCCGTTTTTCAATACCGATTAGTTGGACGCAAGGC
TTACCTGCTTTCGAATAATAACGATTTCCTGCTTCTGCTCTTTGAATCAATTGACTC
AAATTGGTTTTTGCTGATGAATATTTGCTTGAACATAACACTTCTCATGATTAGCTAA
CTTGACTAATATACATCATACCAAGATTTTGGGAATCTCATACATATATTGATTATA
TCCGCCGTTTTATTCACACCTTGCTATTTATAGTGGATTAAACAAAACAGTACGGCGTT
GCCTCGCCCTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAGTGAATCGGT
TCCGTACTATCTGACTGTCTGCGGCTTCGTGCGCTTGCTGATTTTTGTAAATCCACT
ATAAAACGGCTTTGCGGTATCCAGTTTGACACCGGTTACTTCTGATTGGTAAGCATCA
TTATTTTCCATAAATCAAACGCTTGACACGGCATTATAAACACAATGCGGCATCTGCCG
CCACCTTGCGGACGCGCGGTTACCGGCTTCCACAGCTACTTCGACAAGCAGCGGCTGCA
AGGCGGACAATACGACTGTGAGGAGGCTCGTTCCACGTCGCGGTGGTCATGCGCGCCAA
CGTCGTCGTTAATACATACGCAACCAAAAAATGCCGTCTGAAACATTTTTCAGACGGCA
TTTTAATCCTGCAACATTACCCCTGCGTGAAGTTCGGATACTGTATCAATATAAAACCC
CATCACAGATTACGGTAAAGGCGTCCGAATGAATCTTGAACACAATTTCGGACGG
CTTTAATTTTCAACAAGGCGAATTAATCAATAATACCAGATTAAACCTTCCATTCCAGCG
ATACGGCGTAATTCGGGCTTGGGCGCGGTAGCGGTCTAAGCCTTTGCCATCGCGGTGCA
CCGATTTGGTGGTGTGTAGCTATATAAACCGCGCAGGGAATCCCAAGTGGTGTATTTGC
GGTTGAACAGGTTGTACACGCTGACGCAAGTCAAGTTTTAGCCGGTTTGTAGAGC
GTTACATATCAAAACATAGCCGACTTGTTCAGCCAGGGTAATCTTTACCTTTTTCT
GCAAAGGCGTACCCAGCCCTTGTTCATAAACGGTGTATTGCGCGCTTTTGACCTTTT
TCGCGCTAGATAGGTGAGCGGGGAGAAACGCCCTTTTTCGCTCGGACTTTCATAGT
CGATACCGGCAATCACTTTTCAGCGGCTGTGTGGACAGCAGGCTGTTGTGCGCCGACGTT
TGCTTTTCGATACACCTAGCGAGCCGAACAGTTTTCAACCTCAGGAACAAAAGACGTA
CTTTGTCCACATTACAGCGGCTGTGAGCTCGATACCGCGGATTCTGGCCTTGTGATAT
TTTTCATCTGCCAATCCAGTTTTTCTTTGTAGGGGTGCTGCATATACCGTAGTAAGCAT
TTTCTCAGTACAGCCGGAGTGCCGCTGGTGGTCAGCTTCTGCTCTTCAGACAGGAAAT

Appendix A

-388-

TGCGGTAATTGCTTTGATACAGGTTGGCATCCAGCATGCCTTTTTTCGCTGCGGCCTTGCA
GAGACAGGGTGTGGGTGGTGTGCGCTCGGCTTTTCAGGTTGGGATTGGGCAGCCAATTAC
CCGAACCGTGGTTGTAAGTGAAATACACTTCGGACGCAATTGGGGACACGGTAGCCGGAAG
TAATGTCGTAACCGACACGCCAAGCCTGATTAGTTGCGCCGCAAGCCGACAAAACCGC
TCCAGCCTTTATAAGTGTGGCTGCAGGTGGTGTGTGTGTCACAAGCATGACACTCGGCAT
TCAATTCTGAGGCGTCATTTTGGTGTGGTCTGAACGGATACCTGCGCGGCTACTGAACA
CGTCGTTCCATTGAATTTTGGTCAGACAGTGAGAAACCGTAGTTGGTGGTTTTTCACCGGAT
GCTGGATACTGCTGGTGGTTTCAACAACACGGCCGCTGAAGTAATAATCGTCGCGGTTTA
GGTTTTTCAAAATCAGGCGGCTGACGAAAGTTTTAAACGACAGGCGGTGTGCCCCCCCC
CGAGTTGCAACGGATGGCTGTCCAAACGCAAGTAAACGTTTGAATCGGGTGTCCATGC
TGCGGTTGTATATTTTCGTCCAAATCCTTCTGATTATAGTTGCGCGTCCAGGTGGAATAAT
CCATCGGGAACGAGCCTTTGTGTGTAACCGCCGCCACTTTGGTTTTCTGATAATCGAAGT
CCGCTTCAAAGACGACAACCAATTTGAATCAGGCATCCATTGTAAGAGAGGTGGCAT
TGCGCCGTCTGTTTACGTATCGGCTTCGCGCCAGGAAGAAGCGGTGAGGTATAAGACT
CTTCAACCGTGAATTATGTCCTGCTGGCGTTAAGCGATGCGCGGATGCGGTGGTTAT
CGTTAATTTGGTAAGCAATCTTACCCAAAAGCTGTGGTATTTGTGTTGGACGAATCAG
GGATACCGCGTCCGAACACCGGATATTTCGCGCCACTGCCTTCCCTTCCACAGCATAGC
CTCGGTTTCCCGCACTTTTCGGTTTCATGACCGCGACGTTGCGAATACAGCAAAGCAGCAT
CCACGCGGTGCTTACTCACACCGAAACCGAGAGTATTTGCCATTACGGTTACGCGTGC
TGTAACCGTTTTTCATCATCACGCCGAATTGCCTGTCTGTCACAGCAAATCACGGCCTT
GCAGCGTTTGGTAATTCACACCGCCGCCAATGCACCACTGCCGGTATTGAAAGAGTCTG
CGCCCTTACAGATTTTCATGTTGCGCACGAGTTCGGGGTCGATAGACAAACGCGAGCTGT
TGAAGTTGCCATAACGGGCGTACAGCGAGTTTCTTCAGAATCAGGCAGGTTTACACCGT
CTATGCTCACGCCGACCGGTTGCTTCCACGCCGCAACAGCAAAGCCTTTTGTATGGC
GGCCGCTGTGCTCAAGCCGACATCGGTGGAATAGCGCACCAAGTCTTTATGTCGCGTA
TCATTTCTGTTTGTATACGTTAAGGTTGACGCGTTCCACAGCCGAGGCGCATTTGCGCT
GACCTTTAAGCGCGACTGCTTTTATCTCTGCTTAAACGGGTGTGGTTTTCAGTTGCAGCT
CATCTGCTGCCAAGACCGGATTGCCGAAAATACTGCCGACCAGCGCGCGATAGGGAGCA
TTTGTATAGTTTTCATATTATCAACTCAAGATGTATGGATTGTTTCATCCATCGGTTAGCG
AATAATAGATTTTATGATAATCATTAAATATTTAATAAGACAGTAATCCATGTAAACAAAG
CCGCGCGGTGTAATTAAGGTCCTGCAACAGCTATGCCGAGACCTTGTATTATTTGGTT
CGATTCTTGTATTATTTGGTTCGATTATTTTATAGTGCCTGTGCGGCATCATTCCTTCCGG
TGCTTCGGCATCGGCTGCCAAGCCGAAGGTTTCGCGCAACACGACTTTGTAGAATGCAAA
GGCTTCGCGCGCGCTTGGATGGCTTCCGCTTCGCTTCGGGAGTCAGGTTCAAAGCGTT
CAGATGCTCGACGAAAGCGCGCCAGTGTTCGCGCGCCGTCGGGATGGGGTGCGAGGTG
GCGCGCGCCGCTGTGCGCGTTGTAATCGAGTTTTTGGGCGTGTGTAACAAAATGCGCG
GCCAAATTTGGATCCTTCGCGCAATAAAGCCAGCCGATTGCTTTGTGCGCGTTTCATG
CGCGAGCGGTTTCGCTATTCGTAAGGTTGTACCCAAATCGCAAGGTCTTGCCTTAC
GGCATCGTATCGCGCCATGATTCCAGCTCGGGAATGGCTTTGTTTAAATTCGCGCATCTT
ATAGATGTGGTTCGACAGCCTTGTGGAACACGGATTGGAGTTTCAAAAATTTGATGTAGTT
TCTTTGCTGACAAACCGGTTGGACAGACATAACGAGGTTATCCACGCTGTCTGTAACCGC
CGTGGTATCCGCTTCAAGCGTTTGGCAAATGTCAATGCTTGATTTCGGTTTCACTCAT
ATTTTTTCTTTTTCGTTAAGGATAAGGATGCGGTGCGGGCAAAATCCGCACTTGCCCG
CATATATAGTGGATTAAACAAAACAGTACGGCGTTGCCCTGCGCTTAGCTCAAAGAGAAC
GATTCTCTAAGGTGCTGAGCACCAAGTGAGTGGTTCCGTAATTTGTACTGTCTGCG
GCTTCGCGCGCTTGTCTGATTGTTTGTATCCACTATAAAAATAATAAAGAAATCATAAA
CGAAATTTATTATCACATATTTTGGAAAAATATCATTTCGCTGATGTTTTTAAGCAGG
TATTTTACTATTCTTTACAGAAATCGGATTTTATCAAATGGGTTTCGCGAGTCCGCGGACA
ACCGCTCAAAAATATTTTTGCGCGACACCAAGGTTTGTTCATACTGCCGAACCTGCCG
GTTTTGCATCCTGATTGGGTGTATCGCCTTTTTTCTTTTATAATGCCGCACTTATATTT
GCCATTTCCTCGATGAAGCGCTTGGCGAAAATATCCCCACAGCCTTTCGCGGCAACTGC
TGCGACGAAGCCCTGCGCGCGCATACGGTAGATTGTCCGGAATGCGGCTGCGCGCGGAT
GTACCCCGGTTGACAGTGGAGAAGCGCGTCTGTCCCGGTTGCGGACACAACTCTTC
AGGGTGGGCAGGCATCCTTTTCCGCCCCCGCCCTATGCGGCGGCTTCGCTGATTTTA
ATGGCGTTTGTCTACGGTATGAGTATATCGAGGTGCGGATACCGGTTGCGGCATCCGTC
CTTTCGCTGCGCGAGATGATGCGCTGATGGTGTTCAGGATTATGGTTTTTTGGCCGAA
GTGATGTTTGTGCTGACTTTCGCGCGCGCGGTTCTGTTTTCTGCTGCTGTGCTGTATGTC
TATGCCGCGCTGATACGGAACACAGCGTATCCTGCGCTGCGTTTTGGCAACCGGTGTGATG
GTGCGCTTGAGACAGGCGATGATGGTGGATGTGTTTTTTGTTTCCACTTTGGTGGCGTAT
ATCAAGCTCTCGTCTGTGGCAGAGGTTTCGTTTCGGGCGCGGTTTTATCTGATGTTTCGCG
CTGTCACTTATCTGATGATTTCGCTATCGGTTATCGGTTCCCGCAGATTGGGTGATTTTCAA
ATCGGCGGCTGACGGGGGATAATGCGGTTTCAGACGGCATCGGAAGGTAACCTGTTGC
AGCCGCTGCGCTGTATTTCCGCGACAGTGCCGAATCCCCCTGCGCGCTGTGCGGTGCGGAA
CTGTACCGCCGACGGCCGAAAAGTCTGAGTATTTTCGTCGGCGTTTCTGACGGCGCGGTT
ATTTTGTATTTTCCCTGCCAATATCCTGCCGATTATGATTTCGTCCTCAATCCTGCCGACG
GAGGTCAATACCATCTTAACGGCATCGCTTATATGTGGGACGAGGCGACAGGCTGATT
GCGGCGGTTATTTTCAGCGCAGTATTTTGGTGGCGGTTGTAAGATTGCGGCAATGTGCG
GTTTTGATTGCGTCCGCGCTTCGCTTTGCCAACGGGTGCAAGAAATTTGCGCACCTC
TACCGCATCACCGAAGCGGTGCGCGCTGGTCGATGATTGATATTTTGTGATTATTATT
TTGATGTGTTCCGTTCCACACTTATGCCGCGCGCGTCATTCCGGGCGAGTGGCGAGTCTAT
TTCTGCTGGTGGTGTGATTCTGACGATGCTGTCCGCTATTATTTTCACCCGCGCTGCTT
TGGGCAAAACGCGCTTCAGACGGCATTTGCTTCAATGAACGGAAAAACATGACTGACAA
CAGCCCTCTCCAAACGGACACGCCAAGCAGCGTCCGCAAAAACACACCTTCTCTC
TGCCGTCTGGCTGGTTCGCTGATCGCGCTGATTGCCGGCGGCTGGCTTTGGGTAAAGGA
AATCCGAACAGGGGCGCTGTGGTTACGCTCTTGATGGACAGCGCGGAAGGCATTGAGGT

Appendix A

-389-

CAACAATACGGTCATCAAAGTATTGAGCATCGATGTCGGACGCGTTACCCGAATCAAAC
GCGCGACGACCAAAAGGCGTGGAAAGTAACCGCCCAACTCAATGCGGACGTATCCGGCCT
CATCCGCGAGCGATACCCAGTTTGGGTGGTCAAGCCGCGTATCGACCAAAGCGGCGTAAC
CGGTTTGGGTACCGTGCTTTCGGGTTTCGTACATCGCCTTTACACCCGGCAAAGCGACGA
GGCAAAGACGTGTTCCAAGTGCAGGACATTCCGCCCGTTACCGCCATCGGGCAAAGCGG
GCTGCGCTTGAATTTGATTGGTAAAAACGACCGCATCTCAACGTCAACAGCCCTGTTTT
GTATGAAAATTTTATGGTCGGGCAAGTCGAAAGCGCGCATTTCGACCCGTCCGACCAAAG
CGTGCATTACACCATCTTCATCCAAAGCCCCAACGACAAACTGATTTCATCCGCCAGCCG
TTTTTGCTGGAAGCGGCATCAATATCGAAACCAGGACGCGCATCAAACCTCAATTC
CGCCCTCTGCTGCCCCTGCTGTTCGGGCGCGATTTCATTTGATTGCGCGAAACCAAAAA
CAGTAAAAACGTCAAAAGCGAAGACAGCTTCACGCTTTACGACAGCCGAGCGAAGTCGC
CAACCTGCCTGACGACCGCTCGCTGTACTACACCGCGTTTTTCAAACAATCCGTGCGCGG
CCTGACCGTCGGTTCCGCCGTCGAGTACAAAGGGCTGAATGTCGGCGTGGTTTCCGACGT
TCCTTATTTTCGACCGCAACGACAGCCTGCACCTGTTTGAACCGGCTGGATACCCGTACG
CATCCGCATTGAACCTTCCCGTTTGGAAATCAATGCCGACGAACAAAGCAAAGAACATTG
GAAACAACAATTTAGACGGCCCTTAAACAAGGCGTGACCGCCACCATCTCCAGCAACAA
CCTGCTGACCGGAAGCAAAATGATTGAGTTGAACGATCAGCCTTCGCATCACCTAAGCT
GCGACCGCATACCGTTTATGCAAGGCGATACCGTTTATCGCGACCCAGGGCGGCGTTTGG
CGATTTGCGAGGTCAAATTTGGCGGATTGCTGGACAGTTTCGACAAACTGCCTTTAGATAA
GACGGTTGCCGAATTGAACGGTTGCTTGCCGAGCTCAAATCCACACTCAAATCTGCCAA
TGCCGCCCTAAGCTCCATCGACAAACTGGTCGGCAACCCGACAGACACAAACATTCCGAA
CGAACTGAACCAAAACCTGAAAGAGTTGCGCACAAACCTGCAAGGCGTATCGCCGCAATC
GCCTATCTACGGCGACGTCAAAAATACGCTGCAAGTTTGGACAAAACCTTAAAGACGT
TCAACCGGTGATTAACTACTTTGAAAGAAAACCCACGCGCTGATTTCAACAGCAGCAG
CAAAGACCCCTATCCCGAAGGAAGCCGATAATGCGCCTTTTCCCGATTGCCGCCGCCCTG
TCGCTTGCCGCCCTGCGGTACTGTGCAAGCACACAAATATTCGTGTGCGCCGACAGCCG
TACATCCGTCCTGCAACGCAAGGCGGCGAAACTGCCGTGCAAGTCCGTCTTGCCGAACCG
CTCAACGCGCGGCGGCTGCTCTATCAAAACCGACCCCTACCGCCTCAACACCGCACAAAC
CACGTCTGGGACAGACCTTGGAGGATATGCTCGAAGCGGCGTTGAGCAATGCATTCAAC
CGTTTGGACAGCACAGCATCTTTGTTCCCTGCCTCACGACGCGGCGAGTACCGAAAAATG
ACGGCTTATATCCAGCATTCCTCAAGGCAGCTACACGGGCAAAACCTCATCAGCGGTAC
GCCGTCTACCCGACGGTACGAACAGACCCCTTCCATATCGAAACCGAACAGCAGGGTGAC
GGCTACGCCCGCATGACCGCCGCACTCGAACAGGACTGAAACAGGCGGCGCAACAGATG
GTCGAGTAAACCGTGAATATTGCGAATTGCGCCTCACTTCCCGAAACACCGATAAC
CCGAACAAACATTACCGACAGCAGCAATACGGTTTTCGATTGAGGACGACAATGAATTG
TTTGAGCGGCTGCTGTTGGAAATCAATCAGGCAGGATTAAGTGGACGCTGATGCTGAAG
AAGCGGCGAGGCGTTTTCAGACGGCATTTGAAGGTTTCGACATCGATACGGTTGCCGCCCTC
GACGACCCGACCGCAACCGCTGCTTGCCGACGCGGCGATTGTCGCAACCGCCTGAAA
ATCGATGCCGCCATTTTCAATGCACGGCAATCCAAGCGTTGCAACAAGAATACGGCTCG
TTCAAGAACTGGCTCGACAGCACCATCCGCGAAGCAAGACGAATGGGTTAAACTCTTT
AAAAACATTTCAAATTCGCGGCGAAATCGTCGGCGAATTTCTGATGAGTACCGGC
TACCTCAAAGGCGCGCACGCGGAAAGCTGTCGGGTTTACCGTGAAACCCCTGAAATACCC
CCGAAATGGCTCGATGCCATCTGAAAAACCAATGAACAGAGAACCTTCTCTCTCGGCGC
AGGCGCGTTGCTGCTTACCGCCTGCGGCAGAAAAATCCGCCGAAACCCACGCCAAAAATCC
CGAAGGAAGCAGCGTACTTGCCTTGGGCGATTGCGTTACCTTGGGCTACGGCGCAAAACCC
TGGCGAATCCTACCCGCGCAACTGCAAAAACCTGACGGGTTGGAATATTGTCAACGGCGG
CGTATCGGGCGATACATCTGCCCAAGCCCTGTGCGCGCTGCCGCGCTGTTGGCACGCAA
ACCCAAGCTTGTGATTGTCGGCATAGGCGGCAACGACTTTCTGCGCAAGTTCCCAAGGA
GCAGACCCGCGCAATATCGCGAAAAATCATCGAAACCGTGCAGAAGGAAACATCCCCGC
CGTCCTCGTCGGCGTGCCGCACATCACACTGGGTGCGTTGTTGCGGCGATTTGAGCGATCA
TCCGCTGTATGAGGATTTGTCGAGGAATACGGCATTCGCTGTTTCGGCGGCGCTGGGCG
GGAAATTTGGGCGATAATACTGAAATCCGACCAATCCAGCCAAACGGCAAGGCTA
TCGGAAATTTGCCGAAGATTTGAATCAATTTTGAGAAAACAGGGGTTAGATAAAACAAA
GGTTTATCCGCACCCAAGTTGTTTATATAATCATGAACCGACTGGGACACCAAACTGCTT
CGGGACGCATATGCCCTCTGAAGTGCAAGCCTACGCCATACAGCCGCATGAAGTTGCAG
CGGTATGGCGTTTTTTGAAAAAGACGGCCTGCCGGTTTCAGACGGCATGACCGACCGTCCG
AGCCTGCTGTGGATAAAGCCCGGACAGGCTGAAATCATGGAATATTGCGAACCTGAAGAA
GCATCCGACCCGTACGCAACATACAGGCGTGCCAACCTGATGGCGGGTCTGCCGCTGTTT
GTCGTGATTTTGGTTCTGCTCAATATTGTTTTTCCGCTTCCGGCGCATCCCTTAGCTTGG
CTGGTGCTGACAGTTTTCATGGTTTTTGGGCGGCGGCTTTCCTTATCGCTGCCGCTTGTG
GCGCTGCTTGTCTGACCTGCTGCATTCTGGCGCATTTGCCGCATTATCCCGTCTTTTG
TGCTACCCCTTGCCGATATCCGATGTCTAAAAATCTGCTGATGGCAGCCCTACAAA
CCCGAAGGAGTAGAAATGAACTGTCCGAACCTGTTCAACCCGACGAATTTGCCGCGCGG
CATTTGAGTTTGGCGACGAAGCGGCGTTGCTTGCCGCTGTGCGCGAGAAAAGTATGGAC
GATTTTGTGCGCAACCCGTGCCGCAAGCATCCGTATGCCGTCTGAACTCGATTGTCGCC
GATGCCCTGACCGAAGCGGACGCGTTGGCAAAATTTGAAAGGCATTGCGTCGAAAAACATG
ATCAACAATCCTATATCCGTTTAGGCTATTACCCGACCCGCGTGCCGAACGTGATTTTG
CGTAACGTATTGAAAAATCCGGTTGGTACACCGCTACACGCCGTATCAGCGGAAATC
GCGCAGGTGCTTTGGAAGCTTTGTTGAACTTCCAACAAGTGTGATCGATTGACCGGTT
TCCCTGTGGCGGGCGCTTTTGTGAGCAAGCGACCGCGCCGCGGAAGCGATGGCGA
TGGCGCACCGCGTGGGCAAGGTAAAAATCCGAGCGTTTCTTTGTGGACGAGCGGCTGTATC
CGCAAACTTTGGACGTGATGAAAAACCCGTGCCAAGTATTTCGGCTTCGAGTGGTGGTTCG
GCGATTTTGGCCAAAGCCGACGAAGGCGAATACTTCGGCGCGCTGTTCAATACGTCCGCA
AAGACGGCGACGTGCAAGACTTGACGAGCTTATCGGCCGTCTGAAAGCCAAAGGCACGA
TTGTGCGCGTTTTCCGCCGACATCATGAGCTTGGTTTTGCTGAAACCGCCTGCCGAATTGG

Appendix A

-390-

GTGCGGATATTGCGTTGGGCAACACACAACGCTTCGGCGTGCCGATGGGCTTCGGCGGGC
CGCACGCCGCTTATTTCGCGTTTAAAGACGAGTTCAAACGTTCCGCCCCGGGCCGATCA
TCGGCGTATCCAAAGACGATCGGGCAAACCTGCCCTTGCATGGCTTTGTCCACCCGTG
AGCAACACATCCGCCCGGAAAAAGCTACATCCAATATTTGTACCGCGCAGGCATTGTGG
CGAATTTGGCGGGTATGTATGCCGTTTACCACGGCCCTGAAGGCGTGAAACGCATTGCCA
ACCGCATTCACGCGCTGGCTTCTGCCCTTTCGCGATGCGCTGGTTTCAGACGGCCTGAATG
TGGTTCACAAAGTCTTTTTCGATACTGTTACCATCGATTTTGGCAGTAAAGAGAAAGCAG
ACCAAGTGTTCGCCGCTGCTTTGGCGTCGGGTACAACTGCGCCGCGTCAACGATACTC
AAGTTGGCGCTGCATTCCATGAAACATCGGCATACGAAGATTTGGTCGATTGTACCGCG
CGTTTACCGGCAAGGATACGTTTACATTTGCCGATGATGTCAAAGGCCGTCTGAACGCCG
AATTGCTGCGTCAGGACGACATTCTGCAACATCCTGTGTTCAACAGTTACCACACCGAAC
ACGAAATGTTGCGTTATCTGAAAAAACTCGAAGACCGCGACTTGGCGATGAACCGCAGTA
TGATTTTCATTGGCGAGCTGTAATGAAACTCAACGCGACTGCGGAAATGTTGCCGATTA
CTTGGGCCGAGTTTACCGGACATCCATCCTTACGCTCCCGAAGCGCAAACCGCCGGCTACC
GCGAATTGCTCGCCGATATGAAAAACAGCCTGAAAGCCATCACCGGCTTTGACGCGATTT
CCCTGCAACCAAATTCGGCGCACAAGGCGAATACACCGGTATGCTCGCCATCCGCCGCT
ATCAGGAATCCCAAGCGAAGCGACCGCAACATCTGTCTGATTCCAAATCAGCCACG
GTACCAACCCCGCCACCGCCGCTGCTCGGTTTGAAGTCGTCGTCGACACCGACG
AACACGGCAACGTCACATTGACGATTTGAAAGCCAAAGCCGAGCAACACCGCGACGCTT
TGTCTGCCATCATGATTACCTATCCGTCACCCACGGCGTGACGAAGAAGGCATCCGCG
ACATCTGCCGATTATTACGAAAAACGGCGGACAGGTTTACATGGACGGTGCGAACCTCA
ACGCCCAAATCGGCATCATGCAGCCTGCCGAAGTCGGTGCGGATGTGTTGCACATGAACC
TGCACAAAACCTTCTGTATCCCTCACGGCGCGCGCGGCCCGGGCATGGGTCCGATTGGCT
TGAAAGCCCATTTGGCTCGGCTTTGCCCCGGGCCATACCTTGACCGACACCCACAACGCGG
CTGCCGATCAAACCGCGTGGCTGCCGACGATATGGTTCTGCATCCATCTCGCCGATTA
CTTGGATGTACCTGACCATGATGGGCAACAAGGCATGGAACAGGCAACCGCGTGGGCAT
TGCTCAACGCCAACTACGTCGCCAAAGCCTTGGGCGAGGATTATCCGATTCTCTACACCG
GCAAAACCGCGCGCTCGCGCACGAATGTATCGTCGACTTGCCTCCGCTCAAAGCCGAAA
GCGGCATTACCGAAACCGACATCGCCAAACGCTGATGGAACGCGCTTCCACGCCCGCA
CCGTCTCCTTCCCGCTTGGCGGACGCTGATGATCGAACCAGCGAAAGCGAGAGCAAAG
CCGAACTCGACCGCTTCATCGCCGCCCTGAAACAAATCAAACAGGAAGTGTGAAAGTCG
GGCGCGCGAATGGCCGAAAGACGACAACCCACTGGTCAACGCGCGCACACCGCCGACG
ATATAACCGGCAACTGGCGCATCCGATTTCCCGCGAAGAGCCGCTTCCCGTTGCCGT
TCGTCGCGCAACACAAGTTTGGCCCTTCGTCAACCGCGTGACGACGCTGACGCGGACC
GCAATCTCGTGTGACGCTGCCACCGATGGAATAATGAAAGACTGACTGTTGATATCTT
AAAAAATGCGCTGTGAACATTTTCAGACGGCATTTTCATCAACGGCAACCCAGTTGCAC
CAATACAGTATCTCGACTATAACTTTAAACAAATGAGTTAAACAGTATCCATACATC
AGCTTTTTTATATCTTCACTGCTTTTTTATTCATCCGATCGTGCAACAGATTTCAAAGATGAA
AAGCCTATTACACCCCTTTGATGTCAATTTCCACACGGACAAACAAATATAGTGGATTAAC
AAAAACAGTACAGCGTTGCCCTCGCCTTAGCTCAAAGAGAACGATCTCTAAGGTGCTCA
AGCACCAAGTGAATCGGTTCCGTACTATTGTACTGTCTACGGCTTCGTGCGCTTGTCT
GATTTTTGTTAATTCACTATAAATTTCCATAAAAAAACGGAGCAGATACCTGCCCGCTT
TTATTTAATCCGAAATTTAATCTAAATTTAGAATTTTGACCGGATTTGGTTTGCCATAT
AGTCAACAGCCGCTTTGACTTCGTATCGCTCAAACCTGCATTGCCGCTTTGGCAGGCA
TCGCGTTAAAGCCTTCAAGGCGGTGTTTGTGCAAGGTTTCTTTGCCCTTTTTGATACGCG
GTGCCCAATCGTCTTTTTTGCCTATGCCGGAATACCGGAATCGAACCAGCGTGGCACA
CCTGACAGGTTGCTTCGAAGACTTTTTTACCCTCAACGCCGACCGCAGGGGCTGCCGCAC
CCTTGTCTTCTGCTTCGCTTCTGCGGAGCTGCACTATCGGCAGGAGCAGAAGCTGTTT
CTGAAGCGGCATTGTGCGCAGGCGCAGCCTCATCAGGATTGGGAAAGAACCGCGCTTT
TGTTCCGCTATGTAAGTAATCGCCCGTTTAAAGTTCCTGATCGGTGAGGTCTGCCGACCGC
CTTTTGACGGCATGGCGTTAAAGCCGTTTACGCGCTGTTGGAACAGGTATCGAAGCCTT
GCGCGATACGCGGTGCCAATCGCGCTTGTGTTCCAGTTTCGGAGCGTTCCGCACATTCG
TGTCCGCGCGTGGCATTGGATACAGATTTTGCCGAAAATCTGTTGCGCTTGGCGTTCGC
CGACGGGGATGCGCTCGCCATCGTCAATGTCCGACAGGCTGGATACGGGTCTGCGTTG
CTGCTTCCGTAGTGGCATCGACATCGCCGAACGAGCCGCTGCCCGCAGCTTAATCAGGA
AATAAAGGACTGCAATAACAATAACGATACCGCTCACAAGGTAACAGTGCAGAGCCTT
GGGCTTTGTTGTGCGCGAGTTGTTTCATTTGGTAGGCTCGCCGTCAGGTAGGTTGTGC
TGTAATTTATAGTTTGGTGTGTTAAACGCGTAAACAATATTTGCTGGATTATACTGAA
TTCACAGGGTCTTTCCAATCGCTATCATTGAAAATATGAAAAATTTGCCAACGGTATCT
GTATAAAACAAATAATCTTTGAAAATAATGTTTATCCTCAAGAAAACCTTCCTTATGC
CGCCATACGCCCGCTGCCGCGCAAGATAACCTTTGCCAATTTGCAGAATTTACGTTAAC
CTTGGCTTTTCCGACCCATAGCTCAGTTGGAAGAGTGTGAGTTTCCGAAGCTGGAGGT
ACAGGTTTCGATCCCTGTTGGTGCGCCAATTATAAAGAGACCGTCTGAAAGATAAATATT
TTTCAGACGGCTTTTGTACTTACTTCAAACCTCTTATTTCAAGACTTCCGCAATGCGCGG
GCAACATAGTCGATTCGACGTATTCAGTCCGCGCAGCGACATCTGCCGGAATCCAGC
AGGTAACCGGCAAAATTCGTGCGCGAGCCTGCGGACTTGTTCACGCTCAATCCTGTGTAG
CCGAACATGCGCGCTGTTTGTGATGAAATAAGTGAATCGCGATTGGGGATTGCGCAGTT
AAGACATCATAAAGTTTCTGCCGATCGCACGGATGCGGTGCGCATCATATAAACCTCG
TTTTGCCACAAGGCGTAAAGTTGCGGGCTGTTTCATCAGTCGCGCGCGATATACGCGCG
TGCGCGGGCGGGCTGGAGTAGATGCGCGGACGGTGAATTTGAGCTGTCCGAACACCAAA
TCCGCTTCTTCTTATTCGGGCAACACGCTTAAGCCGCGCAGCGCTCGCGTAGAGC
GACAGGTTTTTTGAGAAGGAATGCTGACGAACAAGGGCAATTCATTTCCACCGCTTTG
CGGACGGCGTAGGCATCGCTGTCCAAATCGCCGCGCAATCCTTGGTAGGCAATGTCCATA
AAGGGAATCAGTTTGGCGCTTTTGTGATGATGTGAACACTTCGTCCCATTTGCCGTTCCGAC
ATATCCACCGCGGTGCGGTTGTGGCAGCAGGATGGAGGATCAGGACGCTGTTTTCGGG

Appendix A

-391-

AGGGTGTGAAAAACGCGGTCATTTTCGTCGAATTTACGCCGACAGTGGCAGGGTCGTAA
TATGGGTAAAGTGCCGACCTCGAAACCTGCGCCTTCAAAAATGCCGCGATGGTGTCCCAA
GTGGGTGCGTCAGCTAGGCGCGCCTTCGGGAAACGAGCGGTGCAGGAAGTCCGCCCCG
ACTTTGAGCGCGCCGAGCCGCCAAGGTTGTACGGTAACGATGCGCCCTTCGCGAAGC
GCGGGATGTCTTTGCGCAACAATAAATGCTGCACCGCGTGCAGGTAAAGTGTCCAAGCCT
TCCATCGGCAGGTAGGGGCGACGGCGCAGGCGCGCGGCACGGGCGGTTTCGGCTCGGCTC
ACGGATTCCAACACGCGCATTTTGCCTTCGTCGTCGAAATAAATGCCATATGCTCAAATTG
ACTTTTTCGGGGCGCGGTCGTTTTGAAGGTTTCGACCAAACCTCAAATCGGGTCGCCA
GGATAGTATTCGATGTGTGCGGTACATAGTCCTTACCTCTTGCTTTTCAAAGGATTTTCT
TTTTCAACAATACACCACCTTCGATATGGTGCCTAAACGGGAATTGGTCGAACAGGGCGG
CACGTTTCGACCGCATGGGTTTCGCCCAAGGTGTCAAATTTGGCGCGCAACGTTTCGGGAT
TGCAGGAAATGTAGATGATGTTGTCAAACCTGCGACACCAGCTTCAAAGTTTCTCATCGA
TACCGGCACGCGCGGATCGACGAAAATAGTGAAAAATGCGTAATCCGTCAAAGCAATAC
CGCCATCCTTAAGCGGTTTAAACCTCACGTTTCCGGTATAGGCTTCGGTAAATTTCTCAG
CAGACAGACGGGCGATTTTGATGTGCGGATGCGGTTGGCTTCGATATTCATTGCGCGG
CGCTGACGGAGGTTTGGAGATTTCCGGTTGCCAAAACCTGTGCGAAATATCGGGACAGCG
GCAGGGTGAATTTGCGGTTTCCGCAATACAGTTCGAGCAGGTTCGCTGCCAAGCCTTCCG
CCGTGCGGCACGCCCATTTCAAGCATTTTCTGACACAGGCGGCATTTCGGTTGGGTAAAC
TGCTTTCAATTTGCCGATACCGAAATCCCGGTTGCCGACCTTCAAAGTTTCCGTTACAT
AGTCTGTTTTAAAGACTATTTCTGTCCCTGCTCCGCCAATAACGGAAATATCCAACCT
GTTGCTGTAACGCTTGCAGCGCTGCAGTCCACTCAGCATCAAGCCTTTGTGGTAAATCA
TGGTAACAGCATTTCCCGCGCTGAGCGTGGACAGAAATTCGACGGCATACAGCGTTT
TGAGTTCGGGGGATTGCGCGCGCGCGGCGATCAGCTCGGGCATGAGGCGGTTGACAGCCT
CGGAAGCTGCTTCAAACCGTTCGACGCTATCATGTTGCGCGCTGGCTTTCTGCCCTT
TTTCAAACATGGCATAAAACATTTCCCGCCTTCGTGCCAAATACGGAACCTCGGCACGCA
TACGGTAATGTTTGTGCGGAGATTGCTACACTTCCCACTCAGGAACATCCAACCTGCAA
AAAGGTTTAAAGGTAGTCTTTTACCTTGAAGCTGCTGCGTGAGTCATTATATCGC
TATCCTGAAAAATCAGACCGGATTATAAGCCGATTGCTCGCGCACGCAAACTCTTTG
ACTGCCGCCCCCTTCAATGACGGACGGGCTTTGTGCTAAATCCGCCATCTTCCCACT
ATACCGATAAAGGAAAAATCATGGCAGGCAACACTTTCGGACAACCTTTCACCGTTACC
ACCTTCGGCGAAAGCTACGGCGCGGCTTTGGGCTGTATCATCGACGGCTGCCCGCCGCG
TTGGAATTAAGCGAAGCGGATATCCAATTTGACCTCGACCGACGCAAAACCGGCACAGC
CGCCACGTTACCCAACGCGCGGAAGCCGACCAAGTCGAAATCCTCTCCGGCGTATTCGAA
GGCAAAACCAACCGGCACGGCCATCGCCCTTAAATCCGCAATACCGACAGCGCAGCAAA
GACTACGGCAACATCGCCACCAGCTTCGCCCCCGGCCACGCCGACTATACCTATTGGCAC
AAATACGGCACGCGCGACTACCGCGCGCGCGCAGGAGCTCCGCCGTAAGACCGCCGCC
CGCGTTGCTGCCGAGCGGTTGCCAAAAAATGGTTGAAAGAAAAATTCGGCACGGAAATC
ACCGCTTACGTTACCCAGTTCGGCGAAAAAGAAATCCGGTTTGAAGGCTCGCAACACATT
TCCCAAAATCCTTTTTTTCGCCCAACCATAGCCAAATTCGCGAGCTGGAAAACTATATG
GACAGCGTGCGCAATCCTTGGATTCCGTCGGCGCGAAGCTGCATATCGAAGCAGCCAAT
GTCCCTGTCCGCTTGGGCGCAACCTGTTTTTGACCGCTCGATGCCGAAATCGCTACGCG
ATGATGGGCATCAACGCCGTCAAAGCGTGGAATTCGGCGCAGGTTTTCGACAGCGTAACG
CAACGCGCGACGGAACACGGCGACGAACTGACCCCGCAAGGCTTCTGTCCAACCACTCA
GGCGCATCCTCGGCGCATCAGCACCGGGCAAGACATCCGCGTCAATATCGCCATCAA
CCCACAGCTCCTATCGCCACCCCGCGCGCAGTATCGACATCAACGGCAACCCCATCGAA
CTCGCCACGCGACGGCAGGACGACCCCTGCGTCGGACTGCGCTCCGCGCGGATCGCGGAA
GCCATGCTCGCGTTAGTCTCATCGACACGCCCCGCGCATCGCGCGCAAAATGCCGAC
GTTCAGGTTAATACGCGCGGACATTACCTTCAAACAAATAAAATTTAGCCAAAACACA
GACTTTATAATAGAATATCGAGCATTTGCCGTGCAGCCTTGACGCACGGGTTTGTATTAGAG
GAATACACCGAAATGACACAAGAAACCGCTTTGGGCGCGGCACTAAAATCCGCGCTCCA
AATATGAGCAAAAAGAAACAGACCGAAATGATCGCGGACACATCTACGGCAATACGA
TGTATTCAAACGCTTCAAACCGTTGGCGCTCGGCATCGATCAGGATTGATTGCCGCTTT
GCCGCAATACGATGCCGCACTGATTGCACGCTCCTCGCCAACCACTGCCGCGCTCCGCG
CTATCTGAAAGCCTTGGCGCGCGGAGGCAACGTTTCGATTGAACAACCGTTTCAAAGG
CGAAGTTACCCCCGAAGAACAGCGGATCGCGCAAAACCATCTTTTGTGACGAGGCTTT
GCAACAGCAGTCCGCCAAGCTGCCGCGCAACGCTGTCTGTTGAAGCCGAAGCAGCCGA
ATCTTCCGCGACGAGAATAATCCCAACGAAATGCCGCTGAAAACCGATTGGTTTCA
GACGGCATTTTTTTCGTATGCGGCAATCACGTTCAAATATCCAATTCGCGCGTATCGCCT
TCGCGTTCCATCCAAGCGCGGCGGCGGCGGCTTCGCCCTTTCGCCATCAGTTTGACGAAG
ATGTCGCGCGCTCGTCATCTGCACCTTTCGGGATTGTACCTGCAACAGGCGCGGGTG
TCGGGGTGATGTTAGTATCTTTGAGCTGGTCGGGGTTTCATCTCGCCCAAGCCTTTGAAA
CGGCTGATGGAAATAGCGGTTTCTTTAACGCTTCTTTTTCGACGCGCTCCAAAATGCTG
TCGAGTTCTGTTTTGGTCGAGGGCGTAGAATTTGCGGGCAGGTTTGTCTTACCTTGTGCG
TTGACATCGACGCGGAACAGTGGCGGCTGGGCGACGTAGATGTGTCGTCGGAACCAAGT
TTCGGGAAGTGGCGGTAGAACAGGTCAGCAGCAAAACCTGAATATCGGAGCGGTCACG
TCGGCATCGACAGGATGGCGATTTTTCGCTAGCGCAGGCGCTTAAATCGGGATGGTCG
TTAATACCGTGCGGATCGACGCGGATGGCGACGGAATGTCGTGGATTTCGGCGTTGCCG
AAGATTGGTCGGGGTGGACTTCAAAGCTGTTGAGCACTTTCGCGCGCAGGGGAGGATG
GCTTGGGTGGCTTTGTGCGGGGCGAGTTTGGCTGAGCCGCGCGGGAATCGCCTTCGACG
AGGAAGAGTTTCGTTTTTCGGGATGTCTTCGCTTTTCGAGTCGGTCAGCTTACCGGGCAGG
ACGGCGACGCGCTGCCTTTTTCTTTCAATCTTTTAAACCGAACGCATCCGCGCCTGT
GCTTGGCGGATGGCGAGTTCGGCGATTTTTTTCGGAAGTCCAGCTTTGGTTTCAGCCAC
AATTCCAAGGGTTCGCCGATACGTTGGCGACGAGTTTTCAGCGCTCGCGGTTGGTCAGC
TTGTCTTTGGTTTTCGCTTGAAGTTCGGGTCGAGGACGCGGGCAGAGAGAACGAAGGCG
GTTTTTCCGAACACGTCGTCGCTTTGACCTTTAACGCCGCGCGCAAGAGGTTGTGAGA

Appendix A

-392-

TTGATGAAGTTGTTGACTGCGTTGAACACGGCTTGTTCAGGCCTGCTTCGTGCGTGCCG
CCCAGCGGGGTGGGGATGAGGTTGACGTAGCTTTTCGTTGGCGCACAGGCCTTCTTCCAGC
CAAGTCAGGGCAAAACGCCGCTCCTTCGCCGATGCTGAAATCGCCGTTGTGTTGCTCTGAA
ATGTAGTTTTTCGCAAGAGAACAGCGGTACGGCTTCTGCGCGTCGGCAATCAGGTCGGTC
AGATAGCTTTTCAGGCCGTCGGGGTAATGCCAGGTTTGGGTGTGCGCTTCTGCTTCGCCT
TTGACCGGACGGGTACGGGAAACGCGCACACCCGGCAGCAGCAGGCTTTGGCAGCGAGC
AGGCGTTTCGAGTTCGGGAATGCTGTAATTCGGGCTTCAAATATTGCGCTCCGGCCAG
ACGCGCACTTCTGTACCGCTGTCTTTGACGGCGCATTTGCCCACTTGTGCCAACGGTTCG
ACCACGTCGCGCGCGGCAAAACACGATGCGGTGGATTGTGCTTTCGCGTTTACCGTTACT
TCAAGGCGGGTGGAAAGGCGCTTGGTGACGATACGCCACGCCGTCAGGCCGCTGAA
AAGGCATACGCGCTGCCCTCCGTCTTTTTTTGTTGAACCTGCGCGCTGCGTGACAGCGGGTG
AATACGAGTTCGACTACGATACGCCCTTCTTCGGGATGACGGCCGACGGGAATGCCGCGC
CCATTGTCGTGCACGGAAGCGAACCGCTTTCATGAATTTGCACGTCGATTGCAGTCGCG
AAACCGCCCAACGCTTCATCCGACGCGTTGTGATGACTTCTTGGCAGATATGGGTCCGG
CTGTGCGTGCGGGTGATACATACCGGGACGTTCTTTGACCGGCTCCAAGCCTTTGAGGACG
GTGATGCTGGATTGCGTGTATTGGTTGTTTTAGCCATGGGAATAATCTGAAAGTAAGAA
AAACAACGCTTTTCAGACGGCTGAAAGCGTTGCGTTCCGTTGTTTTAGCGGTTGTCGGAA
GATTGGCGGGCGGCAAGTCTTCATAACTTTCATACCGCGCAGGAAGCGGGAAGAGAGT
TCTTTTCAGCGCCCAATAAACGTCGCGTTTGAATCAATCACTTCGTCAACGGGTGCC
CAATATTGATGCGCAACGCCGCGTCAAAATTCGGGGTGGCGGGTGGCGCGCAGGTTGACA
TCGCAATCTCGCGCGGTACGGCGCAGGAGATACCAAATCTGCTTCTGTCCGCGATAAGAG
CCGCGCCATTTCGCGCGGTACCCAGTTGTTGCGGACGTCATAACGCAGCCAGTCGCGCGTG
CGGCCGATAATTTGACGTGTTGCGGCAAAAGCCGACTTCTTCGTACAACTCGCGGTAC
ATGGCGGTTTCGGGGCTTTCAGGTGAAAACCGGCTTATGCGCGCTTCGGGAACTGCCAAGAATGT
TCGCGCACGCGCTTACCCAAAAGACTTCGTTGCGGTTGTTGATTAAAGATGATACCGACA
TTGGGGCGATAGCCTTCCCTGTCCAACACGGTGTGCGCCTCCGTTAAATCAATCTTGGG
ATTTTCCCAAAATCAGCGGTTTGAACAATCAGACGGCATGGCGGTACGCGTGCCGAA
ACACGGGGGATTGGGAAATATCTTAAATTTGGTTTACAATAATGTATTCAAATTAT
TCGGGAATCAGACCATGTTAGATATCCAATTGCTCCGCAGCAACACCGCCCGCTTCCG
AACGGCTTGACGGCGCGGTATGACTTTGATACCGCACGTTTGCACACTGGAAGAAC
GACGCAAGTCCGTTTCAGGTGAAAACCGAAGATTACAGGCTTCGCGCAACAGCATTTCCA
AACAAATCGGCGCACTGAAAGGTACGGGCAACACGAAGAAGCGCAGGCGGCCATGAATC
AGGTTGCCCAATCAAAACCGATTGGAACAGGCTGCCGCGGATTGGATGCCGTTCAAA
AAGAATTGGACGATGGTTGTTGAGCATACCTAACCTGCCGACGAAAGCGTACCTGCCG
GTAAAGACGAAACCGAAAACGTCGAAGTCCGCAAGTCCGACCCCGCGCGAATTTGACT
TTGAAATCAAGACCATGTCGATTGGGGCAACCTTTGGGTTGGATTGTAAGGCGGTG
CAAACTCTCCGGCGCAGATTACCGTGATGCGCGGACAAATCGCCGCTGTCACCGCG
CCTTGGCAGATTCATGCTGGATACGCACACGCTGCAACACGGCTACACCGAGCATTACA
CGCCTTATATCGTTGACGATACGACGCTGCAAGGTACGGGCAACTACCAAATTTGCGG
AAGATCTGTTCCACGTTACCCGTGGCGGCGACGAAACCAAAACACCCAATACCTGATTC
CGACGCGGAAGTTACCTGACCAATACCGTTGCCGACAGCATTATCCCGTCCGAACAAC
TGCCGCTGAAGCTGACCGCGCATTCGCCCTGTTTCCGCAGCGAGGCGGGTTGTCACGGCA
AAGCACGCGCGGTCTGATTTCGCCAGCAGGTTTCGACAAGTGGAAATGGGTTCAAATCG
TTCATCCGAAAATCATACGAAACGCTGGAAGAATGGTCGGCCATGCCGAAAACATCC
TGAAGGCTTTGGAAGTGCCTACCGCGTGATTACCTGTGTACCGGCGACATGGGCTTCG
GCGCGGCAAAACGATGACTTGAAGTTTGGGTGCCGGCGCAAAATACCTACCGCGAAA
TCTCAAGCTGCTCAACTGCGAAGATTTCGAAGCCCGCGCGCTGAAGGCGCGTTTCAAAG
ACGAAAACGGCAAAACCGCTTGGTACATACTTTGAACGGCTCCGGCTTGGCTGTCGGCA
GAACGCTGGTCGCCGATTGGAAGAACCATCAAACGCCGACGCGCATCAACATCCCTG
CCGCACTGCAACCGTATATGGGCGGTGTTGCCAAGTTGGAAGTCAAATAAGTTTGCAGGC
TGCTGAAAGCTCAATGCGCTCTGAAACCTGTTTCAGACGCGATTTCCTTTAAACTTTA
AAACACGTCAGCCGTGCGCACGAACCGCATTCGCCGAATCGCCGGTCTGTCCGACCTCGC
GGATATTGGACAGCGTAACCTCCGAAATATTACCCAACGCCCTTTCGCTCAAAAATGCCT
GATGGCCGGTAAACAGCACATTATGACAAGACGACAGGCGGCGGAACACGTCGTCGGTAA
TCACATCGTTGGATTGTCTTCAAAAAACAGCTCGCGCTCGTTCTCGTACACATCCATGC
CCAATGCGCCGATTTTCGGCGGTTTCAACGCCCTCAATCGCGGCGGCACTGTCAATCAGCC
CGCCCCGGCTGGTGTTGATAATCATCACGCCGCTTTTCATTTTGTGCAACGCCGCTTCGT
TCAGCATATAGTGGTTTTCCGGCGTGCGGGGCAATGCAGCGTGATGATGTCGACCGGG
CATACAGCTCGTCTAAATCCACATATTTGCCGCGGATTTTTTCGCTTCGGGGTTGCAAA
ACGGATCGTAAGCCAGCAGGTTTCATGCCGAAACCTTTAAATCCGCATGGTTGCAATAC
CGATTTTCCCGTGCGGATAACGCCCGCGGTTTTGCGGTACATATTGAAACCGGTCAGAC
CTTCCAGCGAAAATTCGCATCGCGGTACGCTGATAGGCTTTGTGGATACGGCGGTTCA
ACGTCAGCATCAGACCGACCGTATGTTCCGCAACCGATTTCGGGCAATAGGCAGGCACGC
GCACGACTTTCAAGCCCACTCTTCAGCCGCTTTAAATCCACATTATTGAAGCCGGCAC
AACGCAACGCCCAAGTTTCACGCCAATTTGCGCCAATTTTCCAACACGGGCGGCTGC
CGTCGTCGTTTACAAAATACAGACCGCTTCCGCGCTTCCGCGATTTCGCGGTTTTTCG
CATCCAGCATAAATCAAAAACTCCAGCTCGAAGCCGAAATGCCGGTTGGCGCGGGTAA
AATGTTCCGGGTATAGCTTTTCGTACCGTAAATCGCAATCTTCATCAATATGTCCAGTT
GTCGCTATGTTGAGAAACGGCATAATACACTGAATTCAAACAAATCAGTAGAATATGG
TGGATTAAATTTGATTGATGCACGGCATTTCCATTCAAACACAAAACCAATCGCCC
ATTGCCGCCAGAGCTCGGCTGATGCTCGGCAATCAGGCAATTGGTGATTCTTCCAAG
TCGCGGTCCATCAAAAATCCAGCTTGTGACGGTAAGGTTGATGCGGTGTCGGTTACG
CGGCTTGGGGTAGTTGTAGGTGCGGATGCGTTGCTGCGGTGCGCGCTGCCGATGAGG
GATTGCGCTCGGCGGCTTCTTTGGCTTGGGCTTCGCGTTTTTGGCGCTCGTTACGGCG
GCGGCGAGGACTTCATTGCGCTGCGCTTTGTTGGCATGTTGGCTGCGGCCGCTTGGCAT

Appendix A

-393-

TCGACCACCATGCCGGTGGGCAGGTGGGTGATGCGGACGGCGGAGTCGGTTTTGTTGATG
TGCTGACCGCCCGCGCGGATGCGCGGAAGGTGTCGATGCGCAGGTCGGCTGGGTTCAAGT
TCGATGCTTCTCCAGTTTCGTCGGCTTCGGGCATGACGGCAACGGTGACAGGCGAGGTGTGG
ATGCGGCCTTGGCTTTCGGTGGCGGGGACGCGCTGCACGCGGTGTCCGCCGATTCAAAT
TTCAAACGGCTGTACGCCCCGAGTCCGACAAATACGGGCGATGACTTCTTTATAGCCGCC
AATTCGCTTTCGTTGGCGGACACGATTTCAACTGCCAACGGTTGCGCTCGGCGTAGCGG
CTGTACATACGCAGCAAAATCGCCGCAACAGCGCGCTTCGTGCGCGCCGTTCCGGCG
CGTATTTTCGATGAAGATGTTTTTGTGTCGTGTCGGCATCTTTGGGCAGCAGAGTTTTTGC
AGTTCGGTATCGAGTTCGCGGATTTTGGCTTTGGCCGCTTCGATTCTTCGGCGGCAAG
TCTTTCAATTCGGGGTCGGACAACATTTCTTCGGCATCCGCCAAGTCGCTTTGGGCAAGC
CGATAGTTTTGGAACACTTCGACGACGGGGTCAAGTTCGGCGTGTTCGCGCGTGAGCTTG
CGGTAGTTGTCCATGTTCGACGCTGGCTTCGGGCTTCGCGAGAAGGTGGGTAACTTCTTCC
AGTCGGTCGCTGAGTTGTTGATGTTTTCTAAGATAGACGGCTTCATAATTCTTCCATAA
CAAACGCGCCTGAATGTTTCAGACGGCATCAACACTGGATTATTATAAGGTTTTTCGG
ATATTCAAAAAGATAATCTTAGATGGATAACCTACCGTCCCAACAGGCGATCGGCATTGC
GCTCCGTTACCTTTGCAATCTCTTCTACACAGGTTCCGCGGATTTCCGCAGCAATCTTTG
CAATACCCGGAATATTGGCAGGCGTATTAACTCTCTTTTTTCAGCATAAACGGGCTATCCG
TTTCCAATACGAAATCCCGCTCGTTCAAGGCTTTAAGCGTATCGCGCACTTTACGCGCGT
TCGGATTGAGCAGCAGCGAACCAGATGCCGATTTTGAACCCAGTTTCGTCAACACACGCG
CTTCTTCGCGCTGCGGAGGCGTGAACGATGCCGCTTGGGCAAGCGTGTCTGTT
TGACGGCGGCGCGATGTGCGCGGTGGCTTTGAGATTATGGATAATCACGCGGCGGCGCA
GGGTTTTGCGCAATTTCAAGCTGGCGGACGAAACTTGAATTTGCCGTTTCGCGCTGTGCG
ACGTTTGGGTTTTATCGTAAAAATCCAAGCCGATTTCCGCGACCCATGCCTGCGGATAAT
GTGCCAATCATCTTTTCCAGCGGACGAAATCCCGCTCGGCAATCCGCTCTGAAAACCAAG
GATGAATGCCCAGTGCAATACGGATTTGACCGTGTTCGGACGGCATTTCCGCCAAATCCG
CCACGTCCTGCCAATCTTCGCGGCGCGCTCGCGGGAACGATAAACCGCTTCACCCCACTT
TCGCGCTGCGGTGAGGATGTGCGGAGGTTTCGCGCAGGCGGGATCAGCGAGATGGC
AGTGGGTGTGCGTGAAGTTCAATTCGATTTCACACTAACTTTAGTCTTACCAATCTTTG
TAAACATCTTCCCTACCCAGCCTTGCGATACGGCGAGGGTCATCAGCGCGGTGGCGGTT
TCGAGGTTGCATTTGCCGCGTTGATGATGCCGAGTTGCGGAACGCGTTGCCTTGCGCG
TAAACGGCGCGGTTTTGCTTGTGCGACTTGGCTGATGTTGAGCAGAGTTTGCCCTGC
CGCGCGAAGTCTCGGACGCGCGGATAAAACCTTCGTCTGCGGCGGTGTTGCCGTGTCG
TAGCTTTGCAGGATAAGAGCTTGGGCGGGAAGCTGTCCGAGTCCGTCCGCAAGTTCTTG
ACGGCAAGCCCGGGATTAAGCGTGCAGGACGCGATTTTTGCTGCGGGTCGGGATAACGG
ATTTTGAGGCGCTCTGAAACGGCTGCTGCGTCTTGGGACGGGAGGCGAAGATTGTGCCAA
CCCCGGGTTTTCTCCATTCGGAAGCGTGCCGAAATGCGGATTGTGCAAGCCTGCAGCA
GTTTCGGTGCTGACTTGTGCTGCCGACGGCGGGATACAGTTTGCCGTCAAACGCGATG
ACGGTTTGTGTTGAGCTTGAAGGCGGCAACGGCGGTGGAGAGGTTGCGCGGGGCA
TCGCTGTTTTTCGCGCGCGTAAGGCCATTGGGAACAGTCAGGACATCGGTTTGCCCAA
CCTTGACAGCGGAGCGGAGGAGATTGGCGGTGTACGCCATGCTGTCCGTGCCGTGCACT
ATCAGGATGCTTCGATGCAAGGAGTTTGTGCGCAATGATGTCCAGCAATCGCGCCAG
TGTTGCAGCGTAACGGAGGAGGAATCAATCAAGGATTGCAGACGTGCCACTCGAAATCG
AGGCGCTCTGAAAGGGGGGAAGGGCTTGCTAACCAAGTGCCTGATCGGGCGCAGGCCT
TCGCTGTTTTGGGTATGCTATGTTGCGCCTGTGTAGAGGACGAAGATTTTTTGTTC
ATGGACATCATCGGTCGCTGAAAATAATAATACGGCTTATTTAACTATATTTCCGACA
GACTGGCAATTTGGCGCGCGGACGGTTTTTCAGACGGCTTCAAATGAAAAGCACCCGA
GGGCTGTCGATATTTGATTTCCAAGTAGATTTTATTACGAAATAGGAGAGCCGCAAC
AAGCTTAAATCCCTTGTGAGGTTCCCAACACGGAAGATACCGCTTGTGGATTAAAAAT
ACGGAACATATTGAATATCGACAACCTATTTAGGTGCTTGATTTTATTGTTTGCTTGCG
CGGCTTTTTTGCTGCTTGGCGGCTTTGCGTTGCGCCGCTTTTCTTTCAATTTGCTGC
GGTAAACTGGATACGTTGGCGTTTTTTCACCAATCCAAAGCAGCAACGGTCGCACCTA
TACCAAGATAACAAAAATACCCGATTGCAGGCTGTGCATTTTCGCCATCAGCCAATCGA
TGTTGTGCGCACCGTATTCGCCAGATAAATCAAATAGGGACGGAATCAGTGCAGGCGA
GTCCATCCATAATGATAAACGCAAGTATGAAACCTTGCGGCTGATACGGCTGTAAACAA
ATACGGCGGTTCTCAAACCGGGCAGGAACGGGCGACAAATAAGACCCAGTTACCGTATT
TGTCGAATTTTTCTGAACCTGCTCATAACGTTTCGGCGTCATGATGCGCGCAATAGGTT
TGAACCTTAGGATTTCTGCCCCCAAATTCGTCCGGCGGCGAATGATGCCGTCCCCGA
CCAATACGCGGAGCATACCGACTGCAAAACATAATATGCGGATTGGTATAACCCATACCCG
AAATACGCGCGCTGTTACCAAGGTCAAATCCTCGGGAATCGGCACGCGGAAACCGCAGA
TGACCAATACAAAAAACAGCGCATACCGTATTCGACAAAAAGGCTTCAAAAAAG
CAAACATGGCGGATTTCCATTTGTCGGAGATAAAAAGTCAGAACAAACCGAAACATTTTC
TACATGAAGCAGGCATTTCTATCAAAGATTATGCCGTCTGAAAGCGGAAAAAGGCAGATT
CGCGCATCTCTCGCATGTTTCAGACGGCATTTAAACAGAAACCGGCGGTTCTAAAAACG
GTTTTGCCTGATTTGCCTAAATGCCCGCGATGGCGGCGCAATGCGTTCCGCCCTTCG
CGCGCCAAATCCGCGCTCCACCATACGCGCAGCGGTTGCGTTCCCGAA
GCGCGCAACACGACACGCGCTTTGCCCTTCGAGTTCTTTTCCACTTCGCCAACACGTCT
TTCGAAGCTTCTGCAATTGCTGACCTTTTGGATGCGCAGGTTAATCATCGTTTGCGGA
TACGGCTGCCAATCGGCGCAAAACGGTGGCGAGGTTTGGTTACGCGTTTGCAAGTGCAGC
AAAATTCGACGCGGAAATAATGCCGTGCGCGGTGTTGTGTTGTCCATACACAAAATA
TGGCCGCTGGCTTCGCCGCGGATGAGCCAGCGCGGTTGGTTACGCTGTTCAACACATAG
CGGTGCGCGACTTTGGCGCGGCAAAATCCACGCGCTGCTTTTCAGGGCGATTTCATC
GCCATATTGGTATGACCGTGCAGGACCGCGCGGATGTTGATACCTTCTCGGCGCGG
GCTTTGGCAATGACGTAATCAGGCTGTGCGCGTCGTAACCTGCCGTTTTATCGACC
ATCATCAGGCGGTGCGCGTTCAGGCGTAAAGCGATGCCGTAGTCGGCTTCATGCTGTA
ACGGCGCGCTGAGTGTCTTGGTATAAGTCGCACCGCATTTTTCGTTGATGTTGAGCCG

Appendix A

-394-

TTGGGTTTCGTTGCCGATGCTGACGACCTGTGCGCCAGTTCGTGAAACACCTTGGGGGCG
ACACCGTACCCCGCGCGCTTGGCGGTATCGACAACCACTTCAAACCCCGAAGGTCGGAA
TGGCTGGGAAAGTGGATTTCGAAAATTCGATATAGCGGTCTCGGCACCGCTGATGCGG
CGTGCGCGACCGAGACGGGCGGACGGTTGGGTTTTCATTTGCGCGTCGATTTTGGCTTCG
ATTTCCAACTCGACTTCATCGGAAAGTTTCACGCCGCTTCGGCGAAGAATTTGATGCCG
TTGTTCGGAATAGGCGTTGTGCGACGCGGAAATCATCACGCCGCGGACAGGCGCAACGCG
CGGGTCAGATAAGCCACGCCGGCGGTGGGACGCGTCCGGTCTGTACCAATTCACACCC
GCCGCGTAAAACCGGCCACCAAGCGGCTTCAGCATATAGCCGAAATGCGCGTGTCT
TTGCGGATGAGGACGGTCCGTTTCTGGTGGTGTCTGCTGCACCAAAACCTGCCCCGCC
GCATAGCCGAGTTTCAATACGAAATCGGGCGTAATCGGAAATGCCCCACTTCGCCGCGC
ACGCCGTCCGTGCCGAAATATTTTTTGGCCATGTGTGCTCCGAGAATGTGAACCGTTGT
CCGAGATTATACAGTCAGTTTGTGCTTGTCTGTCACCGTTGATGCCGTCTGAAACCG
CCCCGTCTTTTTCAGACGGCATGAAGTATGTGAACCGCTGTTACAGATTGATGCCAAC
GCTTCCACACCTTCAACGCATCCGCTGTGCGCTTCACATCATGCACCCGACGATTGTC
GCGCCGCGCGCTACGGAAGCCAACGCTGCCGCCACGCTGCCGTGTACGCGTTCCGCCGCA
TTTGCTCGCGGTCAGCTCGCTATCGTGCTTTTGGCGGATACGCCGATGAGCAGCGGA
AAACCTGTTTCCGCCATCAATTCGGGCAATGCCGCATCAGCGCGATATTGTGTGCAAG
GGTTTGGCGAAGCCGAGCCGAGCCGCGGTCGAGTATGATGCGTTGCGGTGCGATGCCT
GCCGCGATACATTCCGCTGAGCGCGCTTTCAAATACCGCGCTACTTCACCGACAACATCT
TGATATTTTCGATTAACTCGCATGGTTTGGGCAACCTGCATGTGCATCAGGCAATG
CCCGTGTCCGCTGACGCGCCAGCAATTCGACCGCGCCCTCGTCATTCAACGCCGCCACA
TCATTAATAATATCGATGCCGCCGAGTGCCAACGCTTTTTCCATAATCACCCTGCGCGC
GTGTCCAAACTGATGGGAACGCCCCACCCGCCACTTCCGCCAAAACAGGCTCAACCCGC
GCCATTTCTTCTTCAGGCGCAACATAATCCGACCCGACCGCGTCGATTTCGCCGCCGATG
TCGAGAATGTCTGCGCTTCTTTTGAAGCTGTTCCGCATGTGCCAAGGCTGTTTGGGCG
TTTTGGGAATACGCGCGCGTCGGAAAAAGAAATCGGGTGTGAGATTCACGATGCCCATG
ATTTTCGGTTTGGTCCAAACCGATTTCAAACCGTCTGCTGCCAAACGTTGCTGCCATC
TGAACCTCTCCCAAAATAAAAAACAGATTATATGCCGTCTGAAACCGTCTTGTGCGCTTC
AGACGGCACCGCTATTCCGGCGCGACGCGCATGTTGTCCGAATGTCTGCTCCGCTTTG
AATCTGCCGTTATGCTGCTATCCGCCGACTTTTCAAACAGGTTCCGACGATTCCGCA
CGCGCTGCGCGCTTTGCAAGCCGTACAGGATTTCCTGCGGCATATCGCGGTTCCATAA
TCCCGTAATATTCGCAATCACGGGCGATGGCTGATTGCGCGACTTCACGATGGATT
GACATCCAAACGGTAGGGATGGCTTTGGTATGGTTCAATACGCCCGACTCGCCAGAAT
CAGGTGGCGGTTCCCGCGCGAGACGACATATTCTGCGGCATTCAACCAATCTCGGCAGA
ATGGTGCTTGTCTTACACAGCACCAAGGAATGTTAGGTTTCCGGCTTCATTCAATAC
GGCAAGATCGGACATCAGCCCGCGCCCAATACAGGATGTCGCCCGCCGCAATTCAAAGC
CGCTTCGACATGGCGGACGTTGCGGACGCGCACCAATACGGGTTTCCCTGCATCATGCGC
CGATGCCGTCTGTTCCGCCAACCGTCTGACCGTCCCGCGCTTCATCCGCACTTGAAGT
GTCGTATAAGTTTGGCGAAGTGA AAAACGGATCCAGAAACACTGCATCCGCAATGCGCCA
TACTGACGGTTCTGCGCGATACGGACGGTTTCCCGCGCGCGAAAGCCACGCTTTGGC
GGCAACGCGGCTGCTTCCCGCGGATTTTCCCGACTGACGGTTTTTCATGTATCCAAAAT
GCGGACGGCTTCTCGACCTCCGCGACGCTCTGCACCTCCCTGACGCTCAAAACCTATC
GTCGCCGATTGCGCGGATGACAGTACGCTCGTCCGCTGAGAAATGTGTTCTCGCAGACC
TCTGCTCGGATAAAGCGGACGCAACGCGGCAATGTCCGCTCGGCGCGACGCTGCTCAT
GACAATAATCATATTTCTCTGACACAAGAAACGGCTACCCAAAATAGGATTTTTCGCA
AGCCGTGTTATCTGTGGCGTGTTTACAGATTGTTTCGGGTATGATTTTATTCGTT
TTCCACAAATACCGTCTGAAATATGCGGTGGCGTGCTGACGATACGCTTTTGGCGGCA
GTCGGGCTGACACGCTTCCGTATATCGACCTTCACGCTGAAAACATCCCGACGCGCTA
CAACAAAGCATTGCACACACACCCGAAATCTCGTTTGTATGCGGACATTACGCGCAGG
CTCTGCCCCGCGCGACCGTTCATCTGAAAACCTGACCATACCGAACCCGCGCGGAC
CAGACTGCCGTTTCCGTCCGGAACCAAAATCGGATTGAGCTGGA AAAACCTGTGGTCG
GATCAGATACAGATTGAAAATGGGTGGTTTCGAGTGGGAACTTGCCCTGACGCGGAC
GGGAAAGGTGTTTGGAAATCCAAGACCTGATCGACAGCCAAAACGCCAAGCCTCAGTC
AACCGCATATCGTCGAAAACAGCACCCTCCGCTCAATTTCTGCGAGAACAGCTTATC
CTGAAGGAAATCAACCTCAACCTGCAATCCCCGATTCTGCGGGGACGCGTTTGAAGT
TCGGGCATACTGTTTGGGGAAGCTGTCCGTCCCGTGAAAAGCAGGGGGCTGTTCTT
TCAAACGGCATCGGCCCGCCGAAATCTCACCGTTCCATTTTGAAGCTTCCACTTCGCTG
GACGGACACGGCATTACATTTCCACCACCGGACGCCCTTCTGTCCGCTTCAACGCCGCG
GGAGCGGATGCCCGCGCTCGGCTGCGTGACGACACTTCTTCCGCAACCTCCACCTG
ACCGCCCAAAATCCCCGCGCTGGCACTCAGGAACACAGCATTAATTTGAACCGTCAAC
GGCGCATTTACCGCGCGCGCGAATATGCCGATGGGACGGTTCTGTTCAAACCTCGACAAA
GCCAACCTGCACTCCGGCATCGCCAACATCGGCAACGCCGAAATCTCCGGCAGCTTCAAA
ACACCGCGCCACAGACCAACTTCTCCCTCAATTCGCCGCTCGTATGGACGGAAAACAAA
GGGCTGGACGCGCGCGCTGTATGTATCGACCTTCAGGATACCGTCAACCGCTGCCG
CAACCCGTTTTCATCAGCGCGCTGACGCTTCCGTCCGTACCGAATCTGCAAAATTGG
AATGCCGAATTAACCGGCACATTGACCGCCAAACCGTTGCCGCGAAATTCAGATACACA
CATGAAGACGACCGCATCTGGAAGCGCGCTCGCACTGCAAAAATGAACCTGACCCCC
TATCTTGACGACGTGCGGGAACAAAACGGCAAAATTTCCCGACACCTCGCCAAGCTG
TCCGGCGACATCGAGGCGACCTGAAAATCGGAAAAGTCCAATTTCCGGCTGCAACTG
GACGATATGGAACCTACCTCCACGCCGACAAAGCCATATCGCGCTCAGCGTTTCAAG
TCAGGGCTTTACGGCGGCATACCGAAGCGGCATCAGCATCGCCAACACCGCTCCCGCC
ACTTACCGCTTCAACAGAGTCAAGCAACATCCAATCAACCGCTGCTGCAAGACCTG
TTCGGCTTCCACAGCTTACGCGGCAACGGCGACGCGTTCATCGACCTGACCGCGGCGG
GAAACCCGAAAAGAGCTTATCCGCTCGCTTACGGGACGCTGTGCTAAATATTTCCAAAC
GGTGATGGCACGGTATCGACATGGACAATATCTGAAAACGGCATTTCCGGCAAACT

Appendix A

-395-

GCCGACAATGCCGCACCCAGCACACCCCTTCCACCGATTACGCTCAACAGCGAAATTTCA
GACGGCATCAGCGGCCACATCGATACCGAACTCTTCTCCGACAGCCTCTATGTTACAGC
AACGGCTATACCAATCTGGATACGCAGGAATTGTCTGAAGATGTCCTTATCCGCAACGCC
GTCCATCCGAAAAACAAACCGATTCCCTGAAAAATCACCGGCACGGTGGACAAACCGTCC
ATTACCGTCGATTACGGCAGGCTGACCGCGGCATCAATTGCGCAGAAAGAGAAACAGAAA
ATCCTCGAAGACACCCTGCTGGAACAATGGCAGTGGCTCAAACCTAAAGAACCGTAAACA
TCCTGCGTACAAAAATGCCGTCTGAAACACCCCGCGCTTCAGACGGCAGACCGTAAAC
CTACAACCCCAATTCTCCCAATCCCATCAATCTTAGCCGTAACCGCAGGGTCTTTTTT
GATGACGCGTCCCCATTGCGGGTGGTTTTCTCCCGCCATTGTTGGTGCATCCAAACC
CATTTTGCGCGCGAGTCCGCTGACGGGGCTGGCGAAGTCAGATAATCGATGGGCGTGT
TTCTACCAAAACAGTGTGCGGCACGGGGTCCATGCGCGTGGTGACCGCCAGATGACTTC
TTTCCAGTCGCGCAGCTTCACATCGTCATCCACCAGATGATGAATTTGGTATACATAAA
CTGGCGCAGGAACGACAGCAGCCCATCATCACGCGCTTGGCGTGTCCGGCGTACTGTTT
TTTCATGCTCACACCGCATGCGGTAGGAGCAGCCTTCGGGCGGCAGGTAGAAATCGGT
GATTTGCGGGAAGTCTTTTTGCAAAAGCGGTACGAACACTTCGTTCAACGCCACGCCCAA
AACGGCGGGTTTCATCGGGCGGTTTGCCTGTGTAGTTCGAATGGTAAATCGGGTTTTGCG
CATGGTATGCGGTTCGACCGTAAACACAGGAAATAATCCTGCTGTTGTAATAGCGGT
GTGGTCGCCGTACGGGCTTCAAACGCGGTTTCGTTGCGATGGATGACGCTTCAAACAC
GATTTCTGCGCGGCGAGCACTTGCAAATCGTTGCCGATACATTTACCAGCTCCGTCCG
CGAACCGCGCAGCAGTCCGGCAAACTGGTATTGCTCAAGGTATCGGGAACAGGCGTTAC
CGCGCCCAAAATGGTGGCGGGTTCGACGCGAGTACGACGGCGACGGGATACGGCGTATC
GGGATTGAGTTTGGGAATCTCTGATAATCAACGCGCGCGCGATGCGACAGCCAAACG
CATAATCAGCTTGTTTTTGCGCGATGAGTTGTGGCGGTAATGCCGAGATTTTGGCGTTT
TTTGTGCGGCGCGCGCGGTGACGGTCAAGCCCCACGTTACCAGCGCGCAACGCTCTCCG
CCAGCAATGCTGAATCGGAAGTTGATACAAATCAACGCTCTTCGCTTCCACACGATTTC
CTGACACGGCGGCTTTTTTACCACGTTTCGGCGCCATGCTCCAAATGCTTTTCAGACGCG
CAGTTTGAAAAACGCATCTTTGATGCTTTGGGCGGTTTCGGGTTCTTCAAATACGCCAG
CGTCTGCCCAATTTACGCAGCTTGGACACGCTGTCCGCGCCCATGCCATCGCCACAGC
TTCGGGCGGTGCCGAACAGGTTTGCCAACACGGGATAACCGTAGCGGTACCGTCCGGCTT
AATCGGGTTTTCAAACAGCAACGCGCGCCCTTCGGCAGCAGCAGCGGTCCGGCATTTTC
GGTCATTTCCAAATACGGGGAATGGGGTGTGCGACGCGCTTGAGTTTGCCCTGCTGCTC
GAGCATGGCGATGAAGTCGCGCAGGTCTTTGTATTTTCATATTCATCTTTTTTGCTCTTT
ATCCTGAACAATCCGATTCCGATACCGCCCTATCCTTGCTGTGCTTCGGCATATTCTA
TGCCGTGATAAAAGTCGCTACCGGATGTTTCGCGCCTTGATGGAGTTGCAACAAAG
GACGTTGACCATCGGGTTGGGTAACGACATTGCAAGTGCAGACCGAAGGTGTCGGTTTCAT
AAGGGGGCAGCTGGTTGAGATCATGCCGAAATAAACAGCGTTTTCAAGGTTGTCGTAAA
AGCGGCTTTGATAGTCGTTAAACTCTTTTCGCTGACGGATACCCACACGCCATATTCCA
GCGTTTTCTCATGCCCGGATAATCGGAATCGGCAGCAGCCGCGGATAAAGCGGTCCGGTTT
GGTCGGGATAGCGGATGATGCAGAAATCAGAATCGCATTCTGCTTGATAAGCAATGCGTT
CTTCTTCACTGAGTTGATTATAGGGATCGGGTGCAGTAAAGCCGATTGCGGGCATTCTT
CGTGGTTTTTCGCGCAGGAGGTGCAAGTGTACATAAGGTTTCAGACTTTCAAACAGATT
TGCGGTAAGCCATTTCGCGGCAAAACAGCATCCCCATCAATACATAGGCAATCACGCCG
TATAAACCGCCCAACCAATCATATCGCCCCAACCGTGCCAACAAAGCGGCAAGCGTCCCGT
TGATTATAAAAAATACGCACCAAACTGCGTTACCGGCGGGTATAGCGCACGGCTTTTT
CAGGCAGGTCCGGCTGTTGACGCGCGCAAGTTTTCAATCACCGCTGCGCGGCAAAAC
GGCTGCCGCCGAACACCGCAACATCATCAGATTGACGAGGACGGGATACCAATACATCG
AATCATGCCGCCGAACACCAATACTGCGCAAAAAACAGTGTAATAAACAAAGCCGCAT
AACGCTGTGGGGCAGTTTGGCAGTCAGGCGCGCAGCAGCCACAACCCGCACATCGCCG
CCGCCAGCCAAACAAACGACCCGCTCCCTGCCGTATATAGTGGATTAAACAAAACCCAG
TACAGCGTTGCCCTGCGCTTGGCGTACTGTCTGCGGCTTCGTCGCTTGTCTGATTTTTG
TTAATCCACTATACCAAAAGCGGATAGGCAATGCTTAATACGGTCAGAAAAATATGTC
CGAAAAAACCGGTTTCATTTTGAATCCGCACAAATGTTTTCAGACGGCATCCGATAAAA
ACATGCCGTCTGAAAAATATAGAAATACCCGATTAGCCCGCTGAATCTTCAATACCG
CCTGTACCACGTCGTTGACGGTGGCGACATTGCGGAAATCTTCGGCTGCAGCTTGGCGG
CGGTTTTGCGGCTTATGCGGTCATCAGGTCAGTGGCATCGATGCTGTCTGATTTCAAAT
CTTCGTAAAGATTGGTATCAGGCGTAATCCGTTCCGGTTTCGATTTCAAACAACCTCGGTCA
GGGTATCGCGCAACACCGGTAGATTTCTTGTTCGTCATATGTTTCATCTTATGCTTG
GCGGCTTTTGACAAAGCGCGCAGTGTGTTTGACATTGGCAAAATGTTGCGCAAGTTCTC
CTGCTCGCGCTCAATCGGAAACCGAAATGTTTTTGACCCGCCAAGCCCAATTCCAGCGC
ATCGACGGAATCCAGTCCAGCCCTCCGTGCGCAACAGCGCTCTTCGCTGCCGATGTC
GGCGGCGGTTATATCTCCAAAGCCAACTGTGATAATCAGTTGTTTGATTGTTGTTTTT
CAAGTCGTTTCATATGTTTCTTTGTAATAATAGTCTGCAGATATTCATTACGCCGCGC
GCCGCAATCGGCACCGTTTCTCGCGAGCCAGTCTTGGGGGAGGATGTCGCTCCGACG
GTAATTTTCATACCGTATCTTTTCGGGGGGATGCGGTACACGGGTGCCCCCTTTTAAAA
TTGGGCGGATTCTTTTATACATACAGGGCGTAATCACTTCGGCATACCGCAGTCCCAAA
GAAACCGCGCCCCGGTGCAATTTTACCCTGCCGTCCACCCCGTCTCGTTCTTCGGGG
AACACCAGCAGGCTCTGCCGCTGTCAAAACCGCTTTTACCCTTCCAGCATGCTTCC
GACTCTTCGTTCCGAATATAGCCGCACCTTAACTGCGTGTCTCATTCGGGATTGTGC
TGCAAAATCTTTTTTACGATACAGTTTCAATTCGGGCACATGGCCGACAAGCAGCACCACA
TCCAGCAAGACGGATGTTTGGCAAAATCAACTGTCCCGGCGGTTGAGTTTTTCAACA
CCCTTGAACGATACCTCAACACGCCCCGACCATTTTCAGATAAGCAACGAACAAACGCCAA
GATGTTCCGATAATCCAGCGCGCGCAATTGGCGGGGACAGACCTGAAGTGCCGTTT
AAAGTATAAGGCAACAAACCAATTTTCATCATAATGCCCGGACACCGAAATCACAAAT
CCTAACCAAGTCCAAAAAACCGCGGCAATAATCAATTTATCCATTCCGCTGCCACAG
CCATTACGATTGCGATATACCGCGCGCATTCTCGACTGCCGTTACAGAGAAAGCGCAC

Appendix A

-396-

CCATTCCAAACCGCTCCAATATGCCTCGGGCAGCATACCGGCTTCAGACGGCATATCGTC
CGAAGCAGACAAAGTCAGGCTGTAACGCGTCCCTTTGGTCAGAACCATCGCCAAAGCATA
AGCAAACGGCGCGAGTCCGCCGATACGGCATATCCTTCCGGCAGCGGATCGTCCGCCG
CAAAACCAAAACCGACCCGCATCCCTCTTCCAACAGTGATGCCGCTTCGCCCAATGCCGT
TTCCACACCGTCGGGCACACACGGCCAATGCCGTCTGCTCGCTCATATCCTGACGCAATAT
CGACCATTGCCCCGCGTGTGCATTGTGCACCGACAAACCGAACGAAGTCGGCGACACGGT
ATGCGATTTCAAACAGTTCCAACCAAAATCGAAACTGCGTGCCATTTCGCCGTCGTGCGA
GGCATAAACTACCGGACTGCCGGGATGGGCGGAGGCAATGTCCCAAGCCGCTCGCATAC
CAAACGCCGCCGCTTACTCAAACGGCGGCGTGCATAGCGGGCAGGAACGGCAATTCCGG
CCTGACATCGGGCAAAACCGTCGGCAAAATCCGGACATTCCGCCCATTTTGCCCACTGGGC
CATATCGCGCATTTTGTGCCGAAACCCGCCAGGCGGCGATGTGGAAGTGGAAACCGGCA
AATAATCGACGGCATAGTTTCTTTCAAAATTTACACTGTGCCGCAATTCTAACCAAAGCC
TATCCCCCTGACAATGCCGAAATTCAAACGCATTTCTGCCCTTTCTCCGACAACGCCG
CCCTCGGAAACCGCCAGAAATTAGCCTGAATTTACATTTATCATTTATAATGCCCGTATT
TGCCAGCCTGCCGCCGCAATATATGGACACACTGCCAGAATGCCGATTACCAACACCGC
CTCCCTGCTGCCGCACAGCGGGCGTATGGTCTGATAGACCGCATTACCCGATACGGCGA
TGATTTTGTGCAAGCAGGGGCACAGGTAAGCCCCAATCACATCCTTTACTTGACGACAA
ACTGCCCTACACGGCATTTATCGAACTGATGGCACAGGCTGTGCGCGCGTATGCCGGTAT
CCAAGCCCGAAAAACGCACGGTCCGTCCGGCTCGGCTTCTGCTCGGCACGCGCAAACT
TGAAATCTTCGCCCAATCCGTCCCAATCGGCACGCATCTGTGGCAACGGCGCATATGTC
TATTCAGGATGCCGGGGTATGGGCGTGTGACTGCGAACTGCGTGGACAGACGCGCC
GGAAACTTCGTCCGAAACACTCCCTTCAGACGGCATTTTGCGCGCGCCTCACTCAACGT
GTACAGCCCCGAACACCTGCGGGAACACCGATGCCGTCTGAACAGGCACACACATACG
GAGAACAACGATCCGGCTGACGAACTGCTGATTACCGCTCCAAACAGGGCATAGGCAAGC
CGTCGCATTCCGTTTGGCGGAAGACGGCTTTGATATCGTGTCCACTGCCGAGTCGCCG
CGACGAAGCCGAAGCGTGGCGGAAGAAATCCGCGCTTTGGGCAGAAATGCCGCGCGTGT
GCAGTTTGAGCTGTCGCGGCAAGCCTGCGCGGAGATTCTGACCGCGACATCGAAGC
AAACGGCGCGTATTACGGCGTGGTGTGAACGCGGACTGACGCGCGACAATACCTTCCC
CGCGTTTTCAGATGACGATTGGGATGTGGTGTGCTGCGGACTAATTTGACCGTTTTACAA
TGTATTGCATCCGCTGTTATGCCGATGATACGCCGCCGCAAGCCGGACGGATTGTGTG
TATGGCATCAGTGTCCGGCTGACGGGCAACCGCGGCGAGGTCAATTACAGCGCGTCAAA
AGCAGGCATTATCGGCGCGCAAAAGCCTTGGCGGTGCAACTGGCGAAACGCAAAATCAC
CGTCAACTGTGTGCGCGCGGCTCTCATCGATACCGATATTATCGATGAGAAGCTACCTGT
CGAAGAAATCTTAAAGGCTGTCCCGCAGCGCTTATGGGGTGCAGGAAGAAGTGGCGCA
CGCGGTGCGTTTCTGATGGATGAAAAAGCGGCGTACATCACGCGCCAGGTGATTGCGGT
GAACGGAGGTTTGTGTTGAATACCAGAAGGTCGCGAGTAACAGGCATAGGCGGCATTACC
GCCTTCGGCCGGGATTTGGCAAAGCATAACAGCAGCATTCAAAGCCGAAAAAACGCCGTC
AAATATATGGATTGGCAGCAAGCTTCCCGAATTGGAAGCGCAACTGGGTGCGCGGATT
GAAAATTACGCGCGCGCAAAACATTGGACGCGCAAGCAGCTCAGAAGTATGGGGCGCGTG
TCGTACCTGTGCGTCGATGCGGCGGAGCAGGCGTGGCGGATGCCGTTTGTCTCGGGGAC
GAAAGCATTACCGCAGGACGAGTGGGCGTTGCTGCGGCTTTCAGCGGCGACACCAAA
GACATCGGCGATGTGGCGAATTGTTGCTGACCGGCACGTGCGGCAACTTCAGCGCCAAC
ACCTATGTGCGTATGATGCCGCACACCACCGCGCCCAATATCGGCATCTTTTTCGGGCTG
AAAGGGCGCATATCCGACATCGAGCGCGTGTTCGTCCGGCAGCCAAGGCATAGGTTAT
GCCTACGAAGCCATCAATACGTTGCTGACCGATATGATGCTGGCGGCGGAGGCGAAGAA
TTTTTCCCGTCCGAAGTGTATGTTTTCGACTCGCTTATGCCGCCAGCGCGCGCAACGGC
GAACCGGAAAAACCCCGCGCCATACGACGCGAACCAGCGGCGGCTGGTTCATCGGCGAA
GGCGCGGGGATTTTCGTGCTGGAAGAATTGGAACACGCGCAACGGCGCGGTGCGATAATT
TACGCCGAACTCGTCGGCTACGGAGCCAACAGCGATGCCTACCATATTTCCACGCCCCGC
CCCGACGCGCAAGGCGCAATCCTTGCCCTTCAGACGGCATTCGAACACGCAAACTTGCA
CCGAAGACATCGGCTGCGATTATCTGCACGGCACCGGACGACCAACGACAATATG
GAAAGCGCGCGGTTGACGCGGTTTTCGGCAACAATACGCCCTGCAGTCCACCAAGCCG
CAAACCGGACACACGCTGGGCGCGCGGACGCAATCGAAGCGCGTTCGCGTGGGGCATT
GCCGACCGGCAAGCAATCCCGAAGGAAACTTCCGCCCGGCTTTGGGACGGGCGAAGC
GACCCCAACCTGCCCGCCATCAACCTGACCGGCAGCGGACGCCGCTGGGAAACCGAAAA
CGCATTACCGCCAGCTCGTCGTTTGCCTTCGGAGGAAGCAACTGCGTCTTAATCATCGGA
TGAAATAAGTTTGTCAATCCACCGCTATGCTATACAATACGCGCTACTCTTGACGGGT
CTGTAGCTCAGGGGTAGAGCAGGGGACTATAATCCCTTGGTCTGGGTTTGAACCCCA
CCGGACCCACCAATTCCCAAGCCCGGACGTATGTTTGGGCTTTTTTGCCGCCCTGTGAAA
CCAAAATGCTTTGAGAAACCTTGATAATGAAAAAGTCAGCGTATTGATTGTTGCCAAAA
ACGAAGCAAACACATTGAGGAATGATTGAAAGTTGCCGTTTCGATAAAGAAGTTATCG
TTATCGACGACTACAGCACCGCAATACTGCCGAAATGCGGAGGGTTTGGGCGCAAAAG
TCTTCAGACGGCATTTGAATGGGGATTTCGGAGCGCAAAAAACATTGCCATCGAACAGG
CAGGCGGAGAATGGGTTTTCTGATTGATGCAGACGAACGCTGCACGCGGAACTATCTG
ATGAAATCTCAAAATTTGCAAAACCGGCGGATTATGCCCGCTATTTGTGCAACGCCGCA
ACCTTTTCCCAACCATCCCGCCACACACGGCGCGATGCGTCCCGACAGCGTATGCCGTC
TGATGCCGAAAAAGACAGTTCCGTGCAAGGCAAGTACACGAAACCGTACAAACCCCT
ACCCCAACGCCGCTGTAAGCATTTTATGTACCATACAGTACGCAAACTGGGAACAAT
ATTTCAACAAGTTCAACAAATATACTTCCATTTTCAGCCGAAAAATACCGAGAGCAGGGAA
AGCCCGTGGCTTTGCTTAGGGACATTATCTCCGCCGATTGGGGGTTTTTCAAAATTT
ATATCTGAACAAAGGTTTCTTGATGAAAAATGGGTTGGATTATGTCCGTCAACCACA
GCTATTACAGCTGATTAAATATGTCAAACATATATATCTGTACAAATCCGGCGGAAAAAT
TTTAAATGGAAAAAGATTTCAGGATATTAATATCGTATCGGCCAAGATTGGGGTGGAG
GCGAACAAATATGCTATGATGTTTCAAAAGCATTTGGGGCTTCGGGGCTGCACAATGTTA
CCGCCGTCAATAAAAAATGAATTGATGCACAGGCGATTTTCCGAAGTTTCTTCCGTTT

Appendix A

-397-

TCACAACGCGCCTTCACACGCTCAACGGGCTGTTTTGCTCTACGCACTTACCCGCTTTA
TCCGGAACAAACCGCATTTCCACCTGATGATACACACCGGCAAAATGCGGCTTATCCA
TACTTTTTGAAAAAAGTACCGGGTGCGCTGATATTTGTCAAACATAATGTCGTGCGCA
ACAAAACCGATTTTTACCACCGCTGATACAGAAAAACACAGACCGCTTTATTTGCGTTT
CCCGTCTGGTTTTACGATGTGCAAAACCGCCGACAATCCCTTTAAAGAAAAATACCGGATG
TTCATAACGGTATCGATACCGGCGCTTCCCTCCCTCTCAAGAAAAACCGACAGCGCTT
TTTTTACCCTGCGCTACGCGGCGAGGATCAGTCCAGAAAAAGGATTGGAACCTGATTG
AAGCCTGTGTGATACTGCATCGGAAATATCTCAAATCAGGCTCAAATTGGCAGGGGACG
GACATCCGGATTATATGTGCCCTGAAGCGGACGTATCTGCTTCAGGAGCAGAACCAT
TTGTTTTCTTTTGAGGGTTTACCGAAAACTTGCTTCGTTTTACCGCAAGCGATGTCG
TGGTTTTGCCCAGCCTCGTCCCGGAGGCATTGCGTTTGTCAATTATGCGAGGCGATGTACT
GCCGAACGGCGGTGATTTCCAATACTTTGGGGGCGCAAAAGGAAATGTGCAACATCATC
AATCGGGGATTCTGCTGGACAGGCTGACACCTGAATCTTTGGCGGACGAAATCGAACGCC
TCGTCTTGAACCTGAAACGAAAAACGCACTGGCAACGGCAGCTCATCAATGCGTCGCCG
CCCGTTTTACCATCAACCATACCGCCGACAAATTATGGATGCAATATAAACTGCTTTCA
GACGGCATATGCCGTCTGAAAGCCTTTGATGCAACAAACCACTAAATTATATTCGTTTCA
TGGAAAGAAACACCCCGAATTCATCCTTCAAATAAGAAATCCCAATATCCCCGATAT
TACGCAGCCTATTGGCAAAGTTTTGCAGCGTCTTCCCCGGCTTGTCGTGCCGCGTCAAGT
GCTTTGTACAATGTATAGTAGACTAACAAAAACAGTACAGCGTTGCCTCGCCTTAGCT
CAAAGAGAACGATTCTCTAAGGTGCTCAAGCACCAGTGAATCGGTTCCGTACTATCTGT
ACTGTCTGCGGCTTCGTGCGCTTGTCCTGATTTTTGTAAATCCACTATACTACCTTCACA
TTTCTTAATAAATTTTATGAGTAACCATACTTCTTGGTCGTCCAAATCGGTTTCGTCT
TGCTGCGGCGAGTTCCGGCATCGGTTTGGGCGCGATTGGAATTTCCCTATACGGCAGG
CACCACGGCGCGCGGTTTTTCTGCTGTTTTTGTATTTACTATCTTGGTCGCGCT
ACCGGTTAGCTTCCGCAATTTTATATCGGGCGCAGGGCGGTAAATGCGGTCGATTC
CTTCAGGGTTCTGCTCCGGGCACGCAATGGCTTTGGGTGCGGCGTATGGGCGTTGCCG
CTGCTTTATTTTGTCTGCTGCTTTTACAGCGTGGTCGCGGATGGGTATTAATATATGTCG
CCACAGTTTTACGGGGCGGTTTACATCCGGCGCGGACTTTGAAGCCTTGTTGCGGCGGAC
GATTTCCAATCCGGCAGGTTTCGCTGTCTATCAGGCACTGTTTATGCTGATTACGGTTG
GGTGGTCAAAGCGCGCATTTTCAGACGGCATTGAAAGGCAACCGTTATCTGATGCCGG
GCTGTTTTATCCTCTTTATGCGCTGGCAATCCGTTGCTGACGCTGCCGGGTGCAATGGA
GGGCGTGTCTTCTGCTCAAACGCAATTTGTCGTACTTTAAAGCCGATACGATGATTAC
GGCTTTAGGCCAGGCGTTTTTGGCCTGAGCATCGGCGTTTCCGCCATGATTACCTACGC
TTCATATTTGGGAAAGATCAGGATATGTTCCGTTCCGGCCATACGATTATGTGGATGAA
CCTCTTGGTTTCGCTGCTTGCCGGCTGTTGATTTTTCCGGCGGTGTTGCGCTTCGGTTT
TGAACCGAGCCAGGGGCGGGATTGATTTTTATCGTATTGCGCGCAGTGTATGAAGAT
GCCGTTCCGTACCGTTTTGTTGCGGTATTTATGCTCTGCTGCTTTTCGCCACGCTGAC
TTCGGCATTTTCGATGTTGGAACGGTCAATGCTCAACCATCCGCCAAGACGAGCGCAA
ACGCAAAAAACACACTTGCTTATCGGCACGGCCATTTTATTATCGGCATCCCGTCCGC
GCTGTCTTTCGGCGTATGGGGCGAGTTTAAAGTTTTTCGGCAAAACCATTTTTGATTTGTG
GGACTATGTTATTTCCGCGCTATTATGCGGATTGGTGCTTTGAGTGTTCATCTTAC
CGCCTGGATTACAGACAAGCAGTCTGTGTAAAGATGCCGGCGCGGCGAGCACCGTACC
ACGGGCACTGCTGCTGCTGTGGTGAATACCTTGCGCTACCTTGCCCCGATTGCCATTAT
TATTGTTTTTCAATAATCTTTGGACATCCTTTAAAGCCATCCAAACAGCAAAATGCCG
TCTGAAAGCCTTTCAGACGGCATTTTTGCTTCGGGTTACGCTATTTTCGTTCAAAGTATA
GTGGATTAAACAAAATCAGGACAAGGCGACGAAGCCGACAGACGTACAAATAGTACGGAA
CCGATTCACTTGGTGCTTCAGACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCA
ACGCCGTACTGGTTTTTGTGTTAATCCACTATAGCCTTGCGCGATGCCGTTCAAGGACAAC
CCATACCTTTTCGGCAAAACGGATTTCACGGTCTGTCAAACGAGACTTTGCCGAAGCCGA
CCCGTTTCAGGGCTTCGTCCACGCTGTTTTGAGGAGGCGGCGTTTTCCGCATCGGGACGGG
CGGCAAAATAATCGGCATACAGTTTCCACAACGCTGCACTGTCGGATCGAACGCGCGT
CCGTACGCGCTGAATATCGCGGCACAGGCTCAACAGTTTCAAAAAATCCGCCACGGCG
AAGTCAGATAACCGTCCCTGTTTCAGGCGGCTGATCAGGCTGCTTTCACGGTAAAGGCTGA
ACAATTTTTTCAAACGCGCCACTTCCGCCAAACCTTTGTTGACCAATCCGCCGACGC
CTGTCTGCCACACCGAAGACGAGCTCCGCACCGGAACCCAGTGCAGACACCTTTCCAG
AAAAACACATTTTCATTGCGTTTTTCATCCCCGTGCGTTTTTCATCATCGGCGGCAAAA
GGATTCCGCGAGGAAAGAACCGCGCGCCCGCGCCGCAACGGCGGCAACCGTCAGAAAA
CGCCTGCGCCCGAAATGCTTGCCCATACCGCCTCTAAACCGACACTGCGGCTTGATATG
CGGATGAGGGTCTGAACCTTCAAACGAAATCTTCAAACCTGAAGGAAAAACAACTTT
GACTTCAGGATTGATTTTCATCACTGGCAAGCGCGCGGTTGCGGTTCCAACTGCAATGC
GGCCTGCTCGAAATGGTTGCGGTACAAATGCGCGTCGCCAAACGATGGACAAACTCGCC
CGCCTCCAATCCGCACACTTGCGCCATCATCATGGTCAACAATGCGTAGCTGGCAATATT
AAACGGCACACCAAGGAAATATCTGCACTACGCTGGTAAAGCTGGCAGGACAGTTTGCC
GTCGGCAACGTAAACGTAAGAACAGCGCTGGCAGGGCGGCAAGGCCATTTTCATCGACCA
AGCCGATTCCACCGCGCATACAATCAGCGCGCGAGTCGGGATTCTTCTTGATTGTTTC
CAGCACATTGGCGATTTGTCGATATGCCGTGCGGCGCGGGCGAGTTACGCCACTG
GTAGCCGTAAACCGGGCCTAAGTCGCGCTTTTCGTCCGCCCACTCGTCCCAATGGAAAC
ATTGTTGTCCTTTAGGTATTTGATATTGGTATCGCCTTTGAGAAACCAAGCAGCTCGTG
GATAATCGAACGCAGATGCAGCTTTTTGGTCTGTCAGCAGCGGAAACCTTTGCCCAAGTC
AAAACGCATCTGATAACCGAATACGGAGCGCGTACCCGTACCGGTGCGGCTGATTGTGTC
CGTACCGTTGTCGAGGACGTGGCGCATCAAGTCCAAATAGGCTTTTCATAGCAGTCTTTCA
TCAAATTAACGGCGCATTTGTAACATTTCCGGGATAATGCCCAAAACACGGATACAGGC
AGGCAGGATTGTTGGCAATTTTCAGTCCTTTCCACAGTAAACCCGGTGGGAAACAAAA
TTACCTTGATTGGAATCAAAAAATCTAGTTTAATTACTTAGAATAAAATTTCAATAATAT
TTTTATTACGAATTAATTTATGATTATTGATTAAATTATCGGCAACAAACATCAACAT

Appendix A

-398-

CGAAAAATATGGAAAAAATAATGTCAACAATTTTTGCCAAATCGGGCTTGGCATCAGAAAA
AAATAGGTTTATATTTCCACCTACAAATTTGTTTTCCCATTAGTACACTATCAACCAAAA
GGAGTATCCGAATGACTGACCTGAACACCCTGTTTGGCAACCTCAACCAACGCAATCCCA
ATCAGGAGCGCTTCCATCAGGCGGTTGAAGAAGTCTTCATGAGTCTCGATCCGTTTTTGG
CAAAAAATCCGAATACACCCAGCAAAGCCTGCTGGAACGCATCGTCGAACCCGAACGCG
TCGTGATGTTCCGCGTAACCTGGCAGGACGATAAAGGGCAAGTCCAAGTCAACCGGGGCT
ACCGCGTGCAAAATGAGTTCGCCCATCGGTCCCTTACAAAGCGCGCTGCGCTTCCATCCGA
CCGTGATTTGGGCGTATTGAAATTCCTCGCTTTTGAACAAGTGTTCAAAAACGCCTTGA
CCACCTGCTATGGGCGGCGGCAAGGCGGTTCCGACTTCGACCCCAAGGCAATCCG
ATGCCGAAGTAATGCGCTTCTGCCAAGCCTTATGACCGAACTCTACCGCCACATCGGCG
CGGACACCGATGTTCCGCGCGGCGACATCGGCGTAGGCGGGCGGCAAAATCGGCTACCTGT
TCGGACAATACAAAAAATCCGCAACGAGTTTTCTTCCGCTCGACCGGCAAGGTTTGG
AATGGGCGGCGAGCCTCATCCGTCCGGAAGCGACCGGCTACGGCTGCGTCTATTTCCGCC
AAGCGATGCTGCAAAACCCGCAACGATAGTTTTGAAGGCAACCGCTGATTTCCGGCT
CCGGCAATGTGGCGCAATACGCCCGCAAAAAGCCATCCAATGGGTGCGAAAGTACTGA
CCGTTTTCCGACTCCAACGGCTTCGTCTCTTCCCGACAGCGGTATGACCGAAGCGCAAC
TCGCCGCTTGTATCGAATTGAAAGAAGTCGCGCGGCAACGCGTTGCCACCTACGCCAAAG
AGCAAGGTCTGCAATACTTTGAAAAACAAAAACCGTGGGGCGTCGCCCGCGAAATCGCCC
TGCCCTGCGCGACCCAGAACGAATGGACGAAGAAGCGCCAAACCCCTGTTGGCAACG
GCTGCTACGTCTGTTGCGAAGTGCGAATATGCCGTGCACTTTGGGCGCGGTGAGCAAT
TTATCAAAGCGCGCATCTCTACGCCCGGGAAGCCCTCAATGCCGCGCGGTGGCAA
CTTCAGGTTTGGAAATGAGCCAAACGCCATCCGCTGTCTGGACTCGTGAAGAAGTCG
ACCAACGCTGTTCCGATCATGCAAAAGCATCCAGAACTCTGTCTGAAATACGGCAAG
TCGGCGACACAGTAACTACGTCAATGGTGCGAACATTGCCGCTTTCGTCAAAGTTGCCG
ATGCGATGCTGGCGCAAGGCTTCTAAGCAAAACGCCGCGCTCCGCAACAAAAATGCCGTC
CGAACCGCAATGCTGTTGAGACGGCATTTCTTATCCGCCGCTTCAAATCGGGTGAGAC
TACCGATACATCTGAATATGCTATGCCGTCTGAACGGCATTCACACCGCCCAATCCTGCA
CGCGCTTCAAATCATTTTGGCGCAAGTATCTGCGTGGCGGTTACGGCTCTGATATTTCC
TGTCTTCAAGATGCTGCTCGCCACATAATTCAAATGTGCTTTGCCGCTCCGAAGCCT
CGCCCGCGCGCGGTTTGATATTGCCCTCATACAATACACGGTGTGCGCCATCAGCTTCG
GACCGGATCTTCTTCTGATTACGATAAATAAGGCTGTGCGCGCTGCGCGGTACAGCA
TTTTCAACAAACCGCCGACAAATGGCTGAACAACAAATTTGTCGCGCGCATCGGCAATCG
TCTGATGAAAGCTGACATCAGCTTCGCTCTGATGTTCCAAATGGCGCTTTTCGCACGCT
CCTCAAACCTTTTCAAGCCAAACCAATCCGCTTCAAATCGGCATCCGTGCGCGCTTCTG
CCGCCAATGCCGCCATACAGCCCTCGATGTGGCAACTGAAATCAAAAACATCTGTTCCT
AATTGGAATGCTTGCCCAAAAGCTCCTGCCAATTTGCAAAAAATCCTGCTGCGGCTTGA
CCGAACATAATAACCGTCTCCCTGCTCGCTTCCAAACCTGACGGGCGACCAAAACAT
TCAATGCCGACCTTCCCTGATTACGATAAATAAGGCTGTGCGCGCTGCGCGGTACAGCA
TTCGGAATCTTGGCCCTTCCGCGTAAACCCCTTCCGCAATGCGCTCTTCAAATACCGACA
ATACCTGATCGCTGATTTCTGAGGCCTTACCAGTTTCACTACTCTCTTTATAAAGAT
TCCCTGAGAACCTTCCGAAATATAGTGGATTAAACAAAATCAGGACAAAGGTGACGAAG
CCGCAGACAGTACAAATAGTACAGAACCGATTCACTTGGTGTCTCAGCACCTTAGAGAAT
CGTTCTCTTTGAGCTAAGCGGAGGCAACGCCGTACTGGTTTTGTTTCATCCACTATACAT
CAAACATCAAATTGAATGACCAATCAGGCGGATTCTAATGACACGCGCTTCCGCGCT
CAACGGCATTACCTCGCACCGCCCCGAAACACAAGAAAAAACTACACCAAACTACAAT
TTTTGTTTCATGCAAAATATTTGTTTTGACAGGATTTAAACAAAAGCTCCGATTCAAATCTG
CCGAACCGCCCAAAATATATTGACCTAAATATTTAAAGTTTCGTAAAGTAATGCAACGTT
GCTTTAATTGGTTTGACCACTATTGCCGACGATTAGAAAAATATTTGCGAGATGTTCAA
TTATGGAACCTTGGGTTCAAACTACACGGCAATCGGCGGAGCTGTATCTGACTGCCG
CCGCGGCACTCTTACCCATCGTCTTTTCTTGGCGCGTGACCGTCTGAGCTGAAAG
GCTATCAGGCGGGGCTTTATACGCTGCTGATTGCGCTTGGCGTTGCGGTATTCGGCTTCG
GGATGCCGACGGGTATGGCGGTTTCTTCCCTGCCGCGCAGCCGCTTACCCAACGCC
CTACGCCACACTGATTTTACCGCGCATTAACAAATCGGCAATCCACCCGCATCGGTTT
GGACTTTGAAAACGTGTTCAACAAACGCTACCGCCCTATGCCGACATTACGTTTACGG
CAGCGCGCGACGCTGACCGCAACCGTCAACATATAGTGGATTAAACAAAATCAGGACA
AGGCGACGAAGCGCAGACAGTACAAATAGTACGGAACCGATTCACTTGGTGTCTCAGCA
CCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGCAACGCTGTACTGGTTTTTGTAAAT
CCACTATAAAGAAAGAAATGCCGCTGTAACCTTATCGTTTCAGACGGCTTGGATTTCGG
ATTTCAAGTGCAACACTAGTGTATTAGTGGTTGGAACAGATTCAAGAATAAAACACTTGG
CGTTTCGTAGCCAAAGTGTCTTCTTGGTGGTGGTTCAACTCATCTGAACCTGCGTAT
CTCCGATCATGATGTTTACGGAATCGGTTTGTGGGGAAGTATGCGGATGAGTCC
GTTGGTGTCTCTCATTAGCCCTTTCTCCCAAGAAATGGTAAGGGCGCAAAAATAAGTCTC
CGCTTTCAATGCTTTGGTTATTTTGGTGTGTTGGTAGAACTCTTTGCCGTTATCCATGGT
GATGGTGTGCACCTGTCTTATGTGCTTTAATGCCCTAACAGCTGCCCGGCGAGTGTG
TTCGGCTTTGAGGATATCCAAATTCAGATGATGGTGTAGCGGGAACGCGTTCGACCAA
GGTCAATAATGCGCTTTTCTGTCTTTGCCGACAATGGTGTGCGCTTCCCAATCGCCGAT
ACGGGATTTCTGTGACGATAGCGGGTTCGTTTTCTATGCCGACACGGTTGGGTACTTT
GCCTCTGGTCCATGTGTGCTGCCGTAGCGTTTGCGGTAGGGTTTGTGCATATTCTGAGATG
TTGCCACAACGTGCTGCCGTTGCTTTTGTCTTGGCGAAGGTAGCGGTAAATGGTGTGTG
GTGGAGCGTGATCCGGTGTGTTTGCACAGGTAGCGCATACTTGTTCGGGACTGAGTTT
CGGGCGGATAAGGGTGTGATGTGCTGAATCAGCTGCGAATCGAGCTTATAGGGTTGTG
CTTACGCTGTTGTGATAGTCCGGCTTTCGCGCTGGGCTTTTCGCGCTGTATTTGCTGCC
TTGGGTGCGGTGCCGTCTGATTTCCGCGCTGATGGTGTCTTTGTGGCGGTTACGCTGTT
GGCGATTTCCGTTGACGTTGAGTGGCGGGACAGGTATTGGATGTGGTATCGTTGCGCTTG
GGTCAGTTGCGGTGATGCTCATGGCAATCTTCTTGCAGGAAGGCCGTATGCTACCGCAT

Appendix A

-399-

ACTGGCCTTTTTCTGTTAGGGAAAGTTGCACTTCAAATGCGAATCCGCCGGCATTATTAT
GCCCGACCGGTTATTTGTGCGGTTTGGGTATCCCGTTTCAATCCGCCCGCGAGTGCCCTTGT
ACAAATCGGCAAGGTTTTTCGGCGCGGGTCAGTTGTGCCGACAAAGCCGCACCCTCCGCCG
CATAGCTGCTGCGTTCGCGATCGAGCAAGTCGAGCGCGCCGGATACGCCGTGCTTGTAAAC
GCAGGCCGACCAGCGCAACGCTTCTTTAGAGGCGCGGCTTGTGTGCTTAAAGCGTCAT
AGGCTTTATCCAGCTGCTCGCGCGCCCAATGCGTTTGCCACGTCTTGAATGCGGATT
GGACGCGGATTCATAGGCAACGATTTGTACCTGTTGGCGCAGCTTGGCTACATCAAGGT
TCGCCTTGTTCGTACCCAGGTA AAAATCGGCAGGGTAATAGACGCGCGAACGACCAAA
CGCCCGTGCCGCTTTTGAACAACCCACCAATTCGGCAGAACCCGTACCGACGGTTCCGG
TCAGGCGGATGCGATGGGAAAAAGCGCGCGTGCCGCACCGATATGGCGTTTGCCTGTT
TGAGCGCGTGTTCGGCAGCAGGATATCGGGACGGTCGAGCAATACTTCGGAACCTCAAAC
CGGCCCGCAGTTTTTCAACAAAAAAGTGTGTCCAGCGGCAACCCGCGAGGAGGCTT
CGGGTATCGGTTGCTTAATCAAGGTTGCCAAGGATTGCGCGCTTTCGCGGCTGCGCG
CGGATGGGCATAATCGCTTTTGGCAGATTCGATCAGGGCTTCTGCTGACGTAGGGCGA
CGGCGGAAATCAGCCTGCTTGTAAACGTAATTCGGACAGCTTGTAGGTTTCTCGCGCG
TTTTCAAAACACGTTGCGCCAAAGACATCGCTTCTTCGGCGTAACGTTCTGTGAATAGG
CTTTGGCAACCGTGGCAATCAGGCTCAAATGTGCCGCATCGCGGTTGGCGGTGCTGGCGA
AATAGCCTTGCACTGCGCCTCGCTGCTGCTGCTGCTACACGCCGGAACAGATCGAGTTCGT
AAGATGCCGACCCAGTCGCACTTGTAGCTGCTGCTTACATTGCCGCGCTCAAGCTGC
CTTGGCGCGAGTTCGTTCCGATTGGCGGCAAGCGTGGGACGAGGTTGTTGCGCTCAATCA
TGTATTGTTTGGGTAGATTTCGCTGTTCAATACGGCGGTACGCAAACTGGTATTGCGCT
CGAGTGCATGTCGATCAGCTTTTGCAGGCGCGGTCGGCAAAATAGTCATGCCAACCTA
AATCGACGGCGCGGATGCCGCTGTCGGCGGTATCGTTTTTGAACGTTTCGGCAACTTCGA
CTTTGGGCTGCTTCGTATTGGGGAATCATGGTGACGGCAGACAATGCAAGGCTGCTGCAA
CAGAAGTCAAGGTGGTTTTCAATGTAGTATCCATAAAAAAGTCTGATGCCGTCTGAAAA
CCCGTGGGCGTTTCAGACGGCATGGTTGCTTAATGTTGGCTGTGCTCCGAACCGGTGATGC
CCGCTTCGGCGCGGTGTTTTACTGCCATTTCGTGTTTCGTGCGCGGTTTCTTGAAGAATT
TGCGCACCCACATAGAAAAGCGGAACAAGGAACACGGACAAGAGCGTGCCGATGAGCA
TCCCCCAGAATACGGTTGTACCGATGGCGCGCTGGCTGGCAGAACTGCACCGCCGGCAA
TATACAGGGGAACCAACCCCAAAATAAGGCGAACGAGGTGATGATAATCGGACGGAAC
GCAGGCGGGCGGCTTCCAAAGCGGCTTCAACCGCGCTTTTCCCTTGCGCTTGAAGGTCTT
TGGCAAAATTCGATAATCAAATCGCATTTTTCGCACTCAAACCCATCAGGTAACGAAAC
CGACTTGAAGTAGATGCTGCTGGCGAACGAGGGAACGCTGCCCAACAGTCTTCAAACA
GGTTGCGCCCGGTTACGCCCGCAGCCGACCGATCAAACCAACGGAATCACAAGGATGA
CCGCCAGCGGAATCGACAGCTTTTCAATAAGCGCGGCAAGTACCAAAATACGGCTGCAA
CCGCCAAACCGTACAAATCAGGTTTTCGAGCGCGCTTTTGCCTCTTCGCGCGACTGTC
CGCCCACTCCAGCTGTAAACCGCGCCCAATTTCGTCAACCAATTTTGAACCGCGCCA
TAGCCTGCCCCGTTGGAACCGCGGTTGCAGGCGAAGCGGACAGCTTCATCGAAGGATAAC
CGTTGAAGCGTACGCTCTGTTCCGTACCGTTTTTCCCAAGAAACAGTAGCAATGGTGAAAA
GCGGTACGGCGACCGCGGATTTGTTCCGACGGTCAGGTTCAAATATCGGCAGGCTGCA
TACGGGCATCTCGTCGCGGTGACCATCAGCGCTGCGAGACGGCTTGGTTCCGGGAAGT
CGCTGACATAAGACGAACCTCAGCGCGCTTGCCAATGCGGTGCGGATGTCGGCAAACGAAA
TGCTTTCGCGCGCGCGCGCGGACGCGTTGATGTCGATTTTCAACTGCGGCGAGTCTTCCA
AACCAGCAGCAGCGGATGTTGGGTTCAAACAACCGCTGGCAGCATTCTTCTGAATCA
ACTCGTTGCGCTTCGCCAGCAATGCGGTATGGCCGGTATTGTTGCGGTCTTGCAAGTTGA
TGCTCAGACCCGAACCGTTGCCCAACTCCAGAATCGGAGCGGGACGACGCGGATGCCAA
AACCGTCTTTAAGCGTCCCATCATCATACCCGTGAGCTTGCCGGCAATCGCAACGGCAT
CGCTGCGGGCGCGGTACGCTCGTTTCAATCTTTCAATATGGCAAAACCCATCGCCATAT
TCTGACCGCTGCCCGAAAGCTGAAGCCGGAACGGTAATGATGTTTTCTATTTCAGGAA
TGCTTTTCGCCAGTTGGGTAACCTTGCGCCAAAGTCGATTTGGTGCGCTCTTGGGTGCGTC
CTGACGCGAGTTGACCGCTGACCATGACGAAGCCTTGGTCTTCGTTGCGGAGGAATGAAG
TCGGCAGGCGCATAAACAGGAACACGCCCCACAACCGCCAAGCCGATATAGACAACCATCA
TGCGGAAAGTCTTACGACGACCTTGGCAACCGCGCCTTCGTAACCGTGCGTCCAACCTGT
TGAATTTCTGTTAAACAGCCGAAGAAACCTTTTTTCTCTTCGTGATGCCCTTTCGGGA
TTGTCTTCAACATTGTGGCACACAAGAGCGGGTAAGGGTCAGCGCAAGGAAGGCGGAGA
ATGCGATTGATGACGCCATCGTCAGGGCAAACTGTTGTAATATGCCCCGTCGCCCGC
TGAACATCGCCAACCGTACGAACACGGAATCAGAACGGCGGTAATACCGATGACCGCGC
CCGAAATCTGACCCATCGCTTTTTTGGTTCGCTTCTTTGGGCGGCAAGCCTTCAACCGCCA
TAATGCGCTCGACGTTTTTCAACCAACCAATCGCGTCATCGACCAGATGCCGATGACCA
AAACCATCGCAACATGGTCAGTACGTTAATCGACATGCCCATATAAGAGATGAAGGCGA
AACCAGCCCAACAGCGAAATCGGTACGACGATGGTCGGAATCAGCGTATAACGGATGTTTT
GCAGGAAGAGATACATTACGACAAACACAGCACCATCGCTTCGATTAAAGTGTGAATCA
CTTTTTCAATCGAAATTTTCGACGAATTTGGAAGTATCGTAAGGGGTTTTTCAGCTCATAC
CCTGAGGAAGATTTTTTCAACGTCGCCATGCGTTCTTTAACCGCCTTTGCCGTGCGCA
TCGCTTTGCGGCTGTTGGACAGCATCACCGCCATACCGGTGGTATTACACCGTTGACAG
GGGTTGAGGAAGAAATAGTCTTCCATACCCAGTCCGACCTTGCCACATCCTTCAGTAAA
CATTAGAACCGTCGGTATTGGCGCGGAGGATGACGTTGCCGAATCTTCTGCCGTACCCA
ACTGCCCTTGCGCGCTTACGCTGAGCGTAACCGTCTGTCCGCAACGGCGGGAAGCGAAC
CGATAGAACCGCTGAAATCTGGACGTTCTGGGCGGACAGCGCGCTGCCAACATCGGCAA
ACGACAAATTTAGTTTTGCAAGTTCTTAGGATCAACCCAAATCCGCATCGCGCGTTGCG
CGCCGAACAGGCTACCTCCGACGCTTCGATACGCTGCAACTCGGGAACGATATTAC
GCTGCGGTAGTCGTTCTCTCTTCGTTGACTGCACATCCGACGAAAGCATCACAATCA
TCAGGAATTTGAACGCGCCTTGGATACGGTTACGCCGATTGCTGGACAGTTGCCGGCA
GCGTGCTCAATACTTCGGAAAGCTTGTCTGCACTTCCACCTGCGCCAGATTCTCGTCGG
TATCGGCGTAAAGGTCAGGCTACGCTGCCGCTGCCGCTCGAATCGGCGGAAGTGACAA

Appendix A

-400-

TATAATCCAAACCTTCCACGCCGTTTCATATTCGGCTCGATCACGGAAAGCACGCTGTCTT
CCATTACCTGCGCGGACGCGCCCGGATAAGTGGCCCTCAGGGTGATGGTCGGGGCGGCGA
CGGACGGATATTGCGAAACCGGCAGGCTTTGATGCCGAAAATACCCGCGCAATAATGA
AAATCGAAATAACCCACGCAAAATGGGGCGGTCGATAAAAAATTTAGCCATCGATGCCT
TCCTTATTTTCGCTTCAGAACGAGGTTTGGCTTCAGATGCCGCTCTGAACGCCGGATTGAGG
CGCGGCGGCTTGGTTTTTCAGACGACGCCCATCTTTGGGCGTTACCTTTTTCGCACCCGT
TATACCGCGGATACTGATGCCTTCCACAACCACCTTGTCGCCGTCCTTCAGACCCGACGT
AACAAATCCAATTCGTACCTGTCTGTTGCGCAACCCTTACCTCGCGGGGTTCCATACCGCC
TTGGGCAATTCACAAATCATCACGGTATCTTTCGCACCGCGCGTTACCGCCTGCTGCGGCAC
AACAAATGCGTTATCCACCGCCACTTGGTCCATCAGCACGCGCACATACAGACCGGGCAT
CAAGATATTCTGATCGTTTCGGTACGGCGCGCGCAGGGTAATCTGACCGGTTCGATTCTGTT
GACGGCGGATCGGCAACAGCAGGCGGCTTTTTCAGGGTAAACTGTGCCGTCGTCAAA
TTTGATGCCGACCGCAATCACACCATCCGCCGCCAGCAGTTTGCCTTCGGCTATCTGACG
GCGCAATTTTCATCGCTTCGGATGCAGACTGGGTAACGTTACATACATCGGATTGGTTTG
GCGGATGGTCCGAGTACGGTCGCATCGCCAGCGTTTCAGCAACGTACCTTCGGAACTTT
GGACTGACCGATAAAGCCGGAATTCGGCGCGGTAATGCGCGAACGGTTTCAGGCTGATGCC
GGCGGATTGATTTGCGCGCTGCGCGCTTTAACGCTGCTCGGCGAGAAGCTTTCGCGCT
TACCGCAGCATCGTATTCCTGCCGCTGACGCTTCGGCGGCAACCAAAGGCTTGATCG
CGCCAAATCCGATCCGCTTTGGCAAGCGTTGCCTGAGCCGTTGCCAGTTGCGCGCGCGC
GCTTTCAGACCTGCTTCATAAGTGAACGTGTCGATCTGATACAGCGGCTTCCGGCAG
GACATAACTGCCCTTCTTGAACAGCGCTTTTGGATGATGCCCGGACTTGGGCGCGGAC
ATCGGCGGTACGCGAGTATCCAAACGCCCGGCAACTCGACGGTCAATGCGACGGTTTG
CGGATGGACGGTTACGACACCGACGACGGGCGCAGGGGCTTCCCGACAGCAGGCTGCCC
GCCCTGCGCGCGCTTCCGCCCTTACCCTAACGACAGTACCAATGCAACGGCGGCGAGC
CAACGCGGCGCGCAGCATCGCCTTAAAAGCATAAAAGCCATTATTTATCCTATCTGTCT
GGTTTGATGTAAAGGTTTTCGCAATCAACAGGCAATCTTATAGTGGATTAAACAAAACC
AGTACGGCGTTGCCCTGCCCTTAGCTCAAAGAGAAGCATTTCTAAGGTGCTGAAGCACCA
AGTGAATCGGTTCCGCTACTATTTGTACTGTCTGCGGCTCGCCGCTTGTCTGATTTTGG
TTAATCCACTATATTTTCAGGATATAAAAACCGCCTGCTTCGCCAACCCGATGTTCAAACG
GGTTGCGAAGCAGGTTTCATGGGTTTTCAAAGTTGAGATGTAGTCTCAATTTTCATGGGTT
TCATTATACATACAGCATTCGATGGTTACAAAGTCTTTTTTATAATCCGCCCTCATCAAA
CCGACCCGAAACGAAACCGCCATTATGAGAAAAACCAACCGAAGCCTTAAAAACCAAA
GAACACCTGATGCTTGCCGCCCTTGAAGACCTTTTACCAGCAAGGGATTGCGCGCACCTCG
CTCAACGAAATCGCGAACGCGCGGCGTAACGCGCGGCGCGCTCTATTGGCATTTCAAA
AATAAGGAAGACTTGTTCGACGCGCTGTTCACGTATCTGCGACGACATCGAAAACCTGC
ATCGCGCAAGATGCCGAAGATGCCGAAGGAGGGTCTTGGGCGGTATTCGCCACACGCTG
CTGCACTTTTTCGAGCGGCTGCAAGCAACGACATCTACTACAAATTCACAACATCCTG
TTTTTAAATGCGCAACACACGAGCAAAACGCGCGGTTATCGCCATTGCCCGCAAGCAT
CAGGCAATCTGGCGCGAGAAAATTACCGCGCTTTTGACCGAAGCGGTGGAATTCAGGAT
TTGGCTGACGATTGGAACAGGAACGCGAGTTATCTTCATCAATCAACCTTGGACGGG
CTGATTGCGCGGTGGTTCTTCTCTGCGAACGTTTCGATTGGGCAAAACCGCCCGCGC
ATCATCGGGATAATGATGGACAACCTTGAAAACCATCCCGACCTGCGCGGGAATAATCA
AGCCTTGGTAGCAATGCCGCTCTGAACGAACAAACCTTTCAGACGGCATCAAAATGACA
CAAAGCCTTCTTCTAAAATACATATTGAGACCTTTGCAATAACATAGGTTACTAAAAT
TTATGCTCAATCTTATTTTCAAAATGCAAACTTTTCTGATTTTTCTACTTTTTTGCTCA
ATATTAGGAAGTTTTAGGCAATTGAAAATTTTTTGGCGCATTTTTATGCGTCAAATTC
GTTAACAGACTATTTTTGCAAGGCTCTATATCTACTAAATTCATTTTTAATTTCTTCT
ATCATTGCATGGACATCTCTTGGTCAAAATGTCGTTTTCTTCTGAATAAACTTCTAAC
AAATAATGTTCAATGAACGTTTTATCTGTCTGAGCGATACATCTCTGGCAATGTCTTCA
TACGACTCAAAATCATCTTCATGCCAGGGATTATATTTGCCATATTTTTTGAATTTCA
TTTTTCATATCATTTACCTTCCAATATTTATTTACAATTAATAACAATACCATTCAAAAT
GTAACTGCATTTTTTCTCCAGCATTTTTGCAATAAAAACTGAAATCCCGCCATTTCGG
CGAAAACGGGAACCGTTTTTGGATTCCAGTCATCTCTGATAAGGCTTTAACGTCAGT
TTTCGGATTACCGCCTTTATGAGAATAACGATGTGGGCATTTCTGTTTTAATCTATTGC
GGTTATATACATATGCGATTATTTTAGTTTGTCTTACAAAACACTTCATGTTACATTCAAA
AATTTAATGCACTCAATATATTTTTTTAAGGAGAAGCAGATGAGTCAAACCGATACGCAA
CGGACGGACGATTTTTACGCACAGTCGAATGGCTGGGCAATATGTGCCGCATCCGGTT
ACGCTTTTTATTTATTTTCAATTTGTTATTGCTGATGCTCTGCGCTCGGTGCGTATTT
GGACTATCCGTCGCCGATCCGCGCCCTGTTGGTGCAGAAAGGACGTGCCGATGACGGTTTG
ATTTACATTGTGACGCTGCTCAATGCCGACGGTTTATCAAAATCCTGACGCATACCGTT
AAAAATTTACCGGTTTCGCGCGCTTGGGAACGGTGTGGTTTCTTTATTGGGCGTGGGG
ATTGCGGAAAAATCGGGCTTGATTTCCGCATTAATGCGGCTTATTGCTCACAAAATCGCCA
CGCAAACTCACTACTTTTATGGTTGTTTTTACAGGGATTTATCTAATACCGCTTCGAA
TTGGGCTATGTCGTCCTAATCCCTTTGTCGCCCATCATCTTTTATTCCCTCGGCGGCCAT
CCGCTTGGCGGCTCGGCTGCGGCTTTCGCCGCGGCTTTCGGGCGGTTATTGCGCAATCTG
TTCTTAGGCACAATCGATCCGCTCTTGGCAGGCATCACCAACAGGCGGCGCAATCATC
CATCCCGACTACGTCGTAGGCCCTGAAGCCAACCTGTTTTTATGGTAGCCAGTACGTTT
GTGATTGCTTTGATTGTTTATTTGTACTGAAAAATCGTCAACCGCAATTGGGCCCT
TATCAATCAGATTTGTCAAGAAGAAAAAGACATTCGGCATTCGAATGAAATCACGCCCT
TTGGAATATAAAGGATTAAATTTGGGCTGCGGTGGTGTGTTGTCCTTATCCGCCCTATTG
GCTTGGAGCATCGTCCCTGCGACGGTATTTTGCCTCATCTGAAACAGGATTGGTTTCC
GGTTGCGCGGTTTAAAAATCGGATTGTTGTTTTTATTTCTGTTGTTGTTGCACTGCGGGC
ATTGTTTTATGGCCGGGTAACCCGAAGTTTGCAGCGCAACAGGAAGTCGTTAATGCGATG
GCCGAATCGATGAGTACTCTGGGGCTTTATTTGGTCATCATCTTTTTTGGCGCACAGTTT
GTCGCAATTTTTAATTGGACGAATATTGGGCAATATATTGCCGTTAAAGGGCGACGTTT

Appendix A

-401-

TTAAAGAAGTCGGCTTGGGCGGCAGCGTGTGTTATCGGTTTTATTTAATTTGTGCT
TTTATCAATCTGATGATAGGCTCCGCCTCCGCGCAATGGGCGGTAAC TGCGCCGATTTTC
GTCCCTATGCTGATGTTGGCCGGCTACGCGCCGAAGTCATTCAAGCGCTTACGCATC
GGTGATTCCGTTACCAATATTATTACGCCGATGATGAGTTATTTCCGGGCTGATTATGGCG
ACGGTGATCAAAATACAAAAAGATGCGGGCGTGGGTACGCTGATTTCTATGATGTTGCCG
TATTCGGCTTTCTTCTTGATTGCGTGGATTGCCTTATTTCTGCATTTGGGTATTTGTTTTG
GGCTTGGCCGTCCGTCGGTCCCGCGCGCCACATTCTATCCCGCACCTTAAACACGATAAACA
AAATGCCGTCTGAAATGCTTAAACGCTTTTACAGCGGCTTTGCCTTTCTATCCCGTCAGG
CTTCTCCGGCCTCTTCTTTTTTCCGCTGCGGCAAGCGTGTCCGCAAGCAGACGGACGA
GGTTTTCAAACAGGGGCTGTTTCGAGCGGGTTTTGGCTTGCGTTGCCGAACAGGAGGCGA
CTTCGGTATAGTCTTTCTGCCCTTTGCTGACTTTGCTGCCGTGGTAGGCGGTTTTGGGCTT
TTTTCAGGGCGGTTCCCAATCTTGTTTTTGGGCAACGCTTCGGCGGTGGCAAGCGAGG
TTTTGGCAAAAAACGGCAGCGGGCGGTTTTGCGCGATATTGAAAAACGCCATCCATTCCG
ACAATAGCTGCAATGCCCTGTCTTTCGCGGATTTCGCCCAATATTTTCGGTTTTCTCCGATT
GGACGATAAAGGTTTGGCGCATTTTCGGCTTCAGACGGCATAACGGCGCAAAATATCAGGT
GTTCCAGCAGAAAGCGATACGTTGCGGCGCGTTGGGTTTTGCCGTAGGCGTAAACACTT
GTCCGCGAGCGGTACAGATTGCCCCAAGCTGCCTTTTCAGGATTGCCCGTCCGACGGTATGG
CATATGAAAGCGGTGGCAGTTTGGGGCTGTTTAAACCGCGCTGTCGATTTGTTTGGCAG
CAGTTTGGAAAGTCTGCTGCCAAAGTCTGCCAACTCTCCCGACGGCAGGAGGCTTTCCG
CCCCGATGCGGGCGGCGGTTTTGGGCAAAATCCCGTCTTTCGCACCGTGCTTCGATGTAGA
TTTCGGCGATTGATCGCGCTGTTGCGGCTCGAAGGGTTTCGGCAGGCTCCCGAGGCTTCGC
CGATATGGGGTTGCTCCACGCAAGCTGCTGCTGAAGCCATACTTTGACAGGGTTGCGCC
AGAAACGGATAAATTCGTCCTGTCCGATTTCGGCAACAGGTTCCGGCGTTTTCTACGGGT
GATCGAAAGAGGTTGCGGCGGTTTCGGGCGTTTTGTCGAGCGCGGCGTAGTCGGTAC
GCGTGCCGAATATGCCGTCTGAACGTCGCGCTTCTTGAATATCGGCGCGAGAAGGCTT
GCAGCGGATGCTGTTCTATCAGGTTTTGTGCAAGTTGGCGGCTACCGATGCCCGCCATAG
CGGCAACGGTATCGATGAGTTTCGCCCAACAGGGAAGACGGGCAAGCTCTTCGTCTTTG
GGATGTCGCGCCCGATGTAGGACAGGTAGAGGATTTACGCGCGCTGATGAGGGCTTCGA
GGAACAGGTAGCGGTGCTCATCGCGCGGCGCGGCTCTCTTTGGCGGGATGTTTGGCAA
TCAGGTGCAATACGGCGGCTTTGGTATTACGGGGAAAAATCTCCGTCGTTCAAACCCAA
GCGAGATGACTTTGAACGGCAGGCTCCGCAATCGGCACCATACTGCAAAAGGTGATGCCG
CGCGTAAAAAGCCTGCCTCGCTTTTCGCTGTCGAGAAAGCGTCGGATATGGCGGATGACGG
TGTGCGGCGGCACTGTCCGGAATTTGCGCAATTCGGTTTTCCGCTGCCATTTGACCC
ATTCGTTTTCAAGGTTTTTGACTGACTTTTGGTCAATCGGCTTCAGCTTGGAACAATGTTT
CAAGCAATCCCGGCAACGCGCCACCCATTTCGCCGACCGTTGCGGGCTGCCGCCATATCC
GTACAATATCCGTCAGGGTTTCGAGGAAGCGGGCAAAACGTCGCAACATGGCGGTTTGAT
TCACGTCGGCATAACACGCGCTGACATCTGCCACATCGGATTGCCGCTTTGGGCAGCA
TCCAGCCCAATATCATGCGCTTCTACCGCTGCTTCCAGGTGAACAGCTGATCCGTGCCG
CGCGATTTCTCGGTCAAACCCAGTGGACGTTCAAATCGGCAACCATGTCGTGCAAAA
GCGGTAAATCGTCTCAGTCAGTCCGAAACGGCGCAACACGGGCGCGGTTTTCTAAAAGCA
CAAGCACTTTATCGGTTTGGCAATCGGCTTTCCAACAAGTCGAACAGGCATGACAAAGCAT
GAAACAGCGGTTGGCGGCGGCTGATTTTCACGCTCTGACACGGAATACGGCAATGCCTGCG
CACCGGGCTGCGCCTGTCCGAACACGGCTTCGATAAAGGCGTATAGGATTCGATATTCG
GGTTTAATACGGGATATCTGTCGCGCTGCCAATCGGGATGTTTATGCAAGTTTCAACA
GCTTGTCTTTGAGTATCTGCAATTCGCGCAAAAGGCTGTGTGCGGAGACGATGCGTATCG
AGCCGTGCGCCGTTGAGCGCTTCCCGCCATTTTCAGACGGCATTTTCAGGTTTTGAATAT
CGGTTTGCAAGGGCGTGAAGAGCTATCGCGCCCGCTTCTCAAATACCGGCGTTTTGCG
CTTCTATTTCCATTTTCGTTTCAAAAGTCGAAAGTCCCGCCCTGCTTGCCCAATGAGG
CGAGCAGCGGATGCCCTGCCTGAGTTAAATCGGGATCGCGCCACCTTTGAGGATTTGCG
CCGCTTCGATGACGTTGCCCGAGTACATCCCGCTCGGATTGAGTGCGAACACGAACACGT
CGCAATGTTTCGACAGTTGTGCAAAAGTTGCAAAATACATCGCGCCCATCGTGGAATGCG
CGAACACGAAATAACGCTCGGGCAGCTTATCACTGCTCAAAGATTCCAACAGCTTTTCCC
ACAACGCGACACGCTGCGGCGCGCTCTGCCTGCCGTGCTCGAGGTAACGCCACAGTTTGG
ACTGCCAGATTTTCGTCGTGCGCCAAACCGAGCGGCTGCCCTGCTGCCAAGCGTCTATCC
ACTGAGGACGGTACACAGGATTTGGTCAATATGTCGCAAGCTGTCGCGCAAGCTGTT
AATCTGCCGATTTCGCCGTGCCAGATAGTCTTGCAGCACATTCCTCACATCTCAAATT
CTGCCGATTTCGAAATGCTCGCTGCGGAACAAATCCAGCAGCGCGCAGCGCATGACTT
CGGGCGCAACGGGCTGAGTTCCGGAATACCGGGAATCAGTTTTTTTCATCAGCTTCCACG
TCAGGCGGCGGGCAGGCTGAACGACAAATTCGCCGCCACGCCAAATCGCGGGCGAGGC
AGGTATTGAGGTAGCGGCGCATCCCTGACTCTGCACAATAATCTGTTCCGGCTGTAAAG
CCGATTTTCAGCGGTTTGAATTTTGAATGCGGGCAACAAATGCCCGCAGCGTTTCAAGAC
GTTTGGATTGATACAGATAAAACATGATTTCAAACAGAAAGCTGTGGTCAAGTATTCGGGA
TTATATAGCCTTTCCCGCTCCGCTTCAAACAAATGCCGCTGAACCTTTTCAGACGGC
ATTTGGTCATTTAAACCATCTCTCAAACAGGAATCCGCGACAACAGCAGCGTATCCAA
CAGCCAAATCAGCGCAATGGCAAGCAGTGAAGTCCGGAAGAGCAGTGCAGATTGCCAATAG
CGGCAATGCCATCATCCACCAACCGGCAGCTTGAATTTCTGCGCGGCGGAACGATGCC
CACCGCTCCGGTCGGACGGCGTTTCCACCACATCAGCAGCGGCTGATACCGATAAAAAAT
GACGGCAAGGCGAGACAAGAGCTTCGCCAACACGCTCCACCAGCCAGAGTCCCATATG
CAGCGCAATGCTTCCGCCATAAAATTTGCCGAACGGGTTGTAATCGTCAAACGGATGTC
GGCAAGGATTTTGGCGCTGACTGGTCGATGTACCGTGCGGTGCGCAACGGGCTGAT
CATGTCGTAACATAGAAATCTTCGCGCAAAAGTCCATACCGCGTCTCGCCTTTGGGCAA
ATTCAACTGATAACCGCTTTTGAACCGATTTCGCGCGCAAGCGGTGCGAGGTTTCCAA
TGTCATCGGCTCGTCAGGGTTAATGCCGTCTTTCGCCACAGTCGTCCCTGAAACAGGCAT
AGGCGTAAGCTCCAAACCCACGGCACTTCTTAACCTTGGCGTATTCAATACCTCGCC
GTGGTTCGCGACGACTGAAACGGGTTTCGGTTCGACACCCCATTTACGGCAGGGAAGT

Appendix A

-402-

ACTCCAAGCCTGTACGAACTTGCCGCCCCAAATACCCGCCAAGCAATACCCGACAGGCA
GAACAACAGCAAAATCAACGACACCCAAGTTCAAAACGTGCCGTGCAGATTCCGCCACCA
AGAACGCCGCTTGCCTTTTGACGGCAGCAGCATCGCTTGATGCCGCGCCGTTTACCCA
CCAAAGGTACAAGCCGCTGACAACCATATAATGGTCAGTGAAGCTGCCGTTTCCAAAAG
ATAATCGCTGCCGCACCGAGCATCATATCGCTGTGGATTTTCATCCATCGTGAATACCA
ACCCTGATTGCGCGGCATGGTACTGACCCTTTTGCCGTATAAGGATCGACCGCGACCAT
CGTTGCTTTGCCCTCATTTGTTGACACGGAACACGGCAACCATATCATCGGCACGCGGCGC
AATATACGAAACGACGGAGAAAGTTTCCGGATTAACGGCACTGCGTGCCGCTTCCGCCGTG
AACAGACAGAGGTTGTACCGTTGCCTGCGGCACAACATGAATCCGCTCGCCCTCCTTACC
GGTAATATTGGCAACAGCAGCATACCCAAACCCGTAACGGCAAGCAGGGTAAGAAAAGG
CATAACCAGCAGACCGGCATAAAAAATGCCACCGCCAAACGGTCAGATAACGCCGGTTGCT
CTGATTGTGCGGCTTCAGTTTGTATTGTGTATCCATTAATCGTCCTTTGAAAATAGGGC
TATCGTGATGATGCGGATTATAAACAATAAGACTAATCTTTATGACTAAAGTCAAAA
TTCAATTACAACAATAGGCACTGCGCTTTAAAACCGGATGCCCGTTAAAACAAAAAATC
CAGATTCAATACTGAATCTGGATTTCATAACCGATAATATCGGAAACTCAGTCAAGTTA
GAATTTGCCGCTGACTGGTTGACCATATAGTCAACCGCAGCTTTAACCTCATCATCGCT
CAAATCGCCGCGACCGCTTTTTCGCGGCATCGTATTGAAACCTTCGATCGCGTGTTTGTG
CAACGTGTCCTTGCCCTTTTGTGATGCGGTGCGGCCAATCGGCTTTGATGCCTACATGGGG
AATACCCGGAATCGCATTGCCATGCGAGCGGCGACAACCGTTTCAATAAACCTATTGTC
GTCCGCTTTGGCAGCAGGTCAGCTTTTCTCGGCTTTAGGTTCTGCTGCGGCAGGTTT
GGCTTCGGACACGGCTTGTGCTGCTTCTGCAGGAGCAGAGGCTGCGGGTTCTGCCGCGG
TGCGGGAGTCGGTGCAGGCTCGGCTTTTTTACCGGAGCTTTACCGTCTTTATCGGAAAG
ACCCCATACATAAGCAGTCATAATATGAGTTTGTCTTTATCCAAGAAATGTCCCCAAGC
GGGCATTTGGCTGCTGCGACGTTGGTAATGGTTTCGATAATGGATTTTGCGTACCGCC
CCACAACCACAGCTCATCAGTCAGTTTCGGACCCAAACCTTGGATACCTTGTCCCTTATC
GCCGTGGCAAGTGAACAGTTGGCAGGCGGACCGCTGAACAAGGCTTGTCCGCGCGCGGC
ACGTTCTCTACATCATGACTTTCGCGGTTTGAAGGGACATCACATAATGGGCAACGTC
TTTACGCTTCTTCGCCCCAAGCAGGACCCAGGACGGCATAGTCGCAACACGGCCTTT
TTCGATGCTCTCGTGGATTATCGGGATCACCGCCCCACAACCAATCGCTATCGGTGAG
ATTCGGAACCTTTAGAGCTTTAGCATCAGAGCGTGGCACTGGATACAATAAGTGT
AAACAGGTTTGGGCGATTGCTTGGCTTGAGGGTCTTTGCCACTTTTCAATCGGCAT
ATCCGAAACTTGGCATACAGTTTCCCGTATTGCTCATCGGCTTTTGTACCTCTTTTTC
ATATTGGTTATGGCTGGTCCATTTTCAGCAGACCTTTGTAGTCGCGACACCCGGATACAT
AACCATAAACCAGTACCGAACAGCCACGTCAAAACACACAGCCAAAACACAGCGGGG
CAGCGGATTGTCGATTTCGGCAATGCCGTCCCACTCATGACCCGTAGTTTGTACTTCTTC
GCCCTTCTTCGGACGTTTGAACAATTTTGAACAGCAGCAGCCAAAGCCAAAGCGATAAA
GCTCAGTAAGACAATAACGCAATATATATATTCAGAAATTAAGTAAATGGGATGT
TGTGTTCAATTGTTTGTCTCGGTTATCACAATATTACGGTTTTCGCTTTTCTTATCTTGC
GCATCTTGGTTTTTCATCAAAAATGCTGTTTGCGGCATTATCGTAGTTTCTTATTCCGC
CTGTTGAAGACGATATAGAGTACCAACAGGAAACAGATAAAGATCCATACCGTGAAGAGA
GCACGAATACCGTTAATATCCATGATGTTACCTTACGTTTTTCAAAGCCAGACCCCAATCC
TTGCAGATAGGCGACTACAGCATCCAGCTCGGATTGTTTGGCAAAGCCTCAGGTGCTTT
CGCAATTTCTCATCACTGTAAGGAGTACCTACTTTACGCAAGGCTTCATGTTGGCAAC
GGTTGCATCGCATACGCTTTTATTGCGTGCAAGCCACGGGAATGCGGCATATTGGACTC
AGGCACGACATCACGGGGATTTCAGCAGGTGGATACGGTGCCATTCTGCGGAATAGCGACC
GCCCCACGTCGCAAAATCAGGACCGGTACGTTTGGAAACCCATTGGAACGGATGGTCGTA
AACCGACTCTCCGGCAACAGAGTAATGACCGTAACGCTCGGTTTCCGCACGGAACGGACG
AATCAATTTGCGAGTGGCAGTTGTAACAGCCCTCACGGATGTAATATCGCGTCCGGCAAC
CTGCAGGCGATTGTAAGGCTTCACGCCCCGCGCGGCTGTGTTGCCGCTTGGTAAAGGC
CAAGGGCACAATTCATCAACAGACCGACACTGACTACAAGCAGCGTGAACACAATCAG
AACGCCGATTTTTCTTCAGCCAAATGTTGTAATTTCAATTTGGTAGCTATCTTTCTTA
GTATTTTGTGTTGCTGTGTTTGGGAAACCGCAGGGATTTCGGCATCGACTGCTTTACCA
CCGATGGCTGTGCGGTACAGTTGTACGCCATAATGCACATACCACTCAGATACAATAAA
CCACCTGCAAAACGGATCACGTAGTAAGGCATGGTGCCTTTTACGGATTTCGACAAACGAG
TAGGTACGCGTACCGTCATCGTTTCAAGAACTCCACATCAAACCTGCATCACACCGGCA
ATCCACATGGCAGCGATATACAGAACACGCCGATGGTCGCAATCCAAAAATGTGCTTCT
ACCAGCTTGGTGCTGTGCATCTGTTCTTTGCCGAACAGACGGGGAATCATGTAATAGACG
GAACCGATGGTTACAAAGCTACCCAGCCCAACGCACCCGATGAACGTGCGCGACGGTC
CAGTCCGTATAGTGGCTCAATGCATTGACCGTTTTAATCGACATCATCGGGCCTTCAAAG
GTAGACATACCGTAGAAGGACAAGGATACATCAGGAATTTAAGAAATCGGGTCTGTACGC
AGTTTGTCCACGCGCGGACAGGTCATGATGCCGTTAATCATACCGCCCCAAGAGGGT
GCGAACAGAATCAAAGACAGAACCATAACCCAAAGATTGCGTCCAGTCAGGCAGCGCAGTG
TAGTGAAGATGGTGGGACCCGCCACATATAGGTAATAACACGCCAGAGTGAACG
ACGGACAGGCGGTAGGAGTAAACGGGGCGGGCTGCTTGTGTTGGGTACGAAATAGTACATC
ATACCAAGAAGCGCGCAGTCAGGAAGAAGCCACGGCATTATGCCGTACCACTTGA
ACCATAGCATCAATCGCACCGGAATAGACGGGTATGACTTCATCAAACCGCGCGGGATG
CTGATATTGTTGACGATGTGTAAGTGCACCGCCAAAATAAGCCGCGGTAGAACCCAG
TTGGCAACGTAAATATGTTTAACTTACGTTTGGCAATCGTACCGAAGAATACGATGGCG
TAAGCCACCCAAACCAAGTAATCAGAATATCGATCGGCCATTCCAGTTCGGCATATTCC
TTACCTTGGGTCCAAACCATAGGGAAGCTGACGACGGCGGCAACGATTACCGCTGCCAG
CCCCAAAAGGTAAATGCGCGCAGCCACCGCCGAAAAGACGGGTATTACAAGTACGTTGG
ACAACGTAGTATGTTGCGCGTACAGGCCGCAACCGCCAAATGCGAAAATAACCGCATTTG
GTGTGCAGCGGACGCGGCGGCAAGTGAACCAAGGTCCGATATTAGACAAGTCGAGG
GCAGGAGCAAAAAGCTGGGCGGCGACGATAACGCCGACCAACATACCCACAATCCCCCAA
ACTACAGTCATGATGGCGAAGTGGCGCACCACTTTGTAGTTGTAAGTTGTGTGTCATG

Appendix A

-403-

AGAGTCTCCATGAATTTATGGGAATAAAGATTTTTATCCTGCCGCTTCCGCAGCCTGTTT
AAGGTGCAATCCGGGCAAGCGTAATTTTTTCTAAATTTAACATATCTGCCTTATTACGCC
AAGCGGAATTACATTGCGACCCGCGACGAGCCCTTGCTTAATCTGTTTTTTATTACATA
TAAATCATATTGTTATAATAAATTACAACCCGACCGCCATTGCTTTTGTTCGAATTTT
CCTTTTTGTGGCACTTTATGATGTAGGTTAAGCTGCATTTTAAAGGTATTAAATCCATC
CCGTTTAAACGATATATTGATAGTTATGATTCAATATAAAATAACCCCGTCCCCCTCTCGA
CCACGAGTGGCACATCCTGCTGACATTCACACAAGATGATGATCTTCTATAGAAATAAG
CCTGCCAAACTGGGTTCCGGGCGAGTATCTGATTCCGGGATTTTCCCGCCACATCACTTC
TATCCATGCATCTGTAAACGGCAGCTCCATGCCGCTCGAACAAATTGCCAAAAACCGCTG
GCATGCCGCGCCGTACGCGGCGAGTGGCAAATCCGCTACACCGTATATGCATTTCGATTT
GTCGGTTCGAGGTTCTTCTGACGACAGAACGCGGTTTTTTTACGGATCGTGCCTGTT
TTTGAAGTCGAAGGAACGGAACGCTGCCGACCGCTTGAATTGACGGGTATTCCGTC
CGAATGGCGTATTGCCACAACGCTGCCGGAACAGGGAGGTTGTCTTTCAGGCGGCATC
TTATGCCGAATTGATTGACCGACCTGTGCGAGATGGGCTTGATTGAATTTTAGATTGGA
GGCGGCAGGCATTCCGCACACAATTGCCTTAAGCGGCATATATCCCGATTTTCGACCGCAA
CAGGCTGGTTTCGGATATCAAAAAAATCTGCGAAACAGAACTGGCGGTGTTTTCTCCCC
TGCCCCGTTTCAAAAATATTGTTCTGCTCCACGTGCGCGACCATATTTACGGCGGTTT
GGAACACACCGACAGCACCGCCCTGCTCGCCGACCGCCACAGCCTTCCGCCGTACGGTAT
GACCGATGCCGACGATACCTACACCACATTGCTCGGACTTTTCTCCACGAATATTTTCA
CGCGTGAACGTCAAATCCATCAAACTGCCGCGTTCGTCCCTTATGACCTCGACAAGA
AAACTATACCGAACAACATTGGGCATTTCGAAGGTATTACATCCTATTACGACGATTGTT
TTTGGCAGCAGCGCACCATTCTCGCCGAATCTTATTTAAACCTGCTGGCACAAGGCAT
TACGCGCGTACAACAAATCCCGCGCGGCTTTGAGGCGAGCCTTGGCGGAATCGAGTTTAC
CGCGTGAACAATAATTTTCAAAACCGGATGAAAACAGCCCCAACCGCATCTGTCAGCTACTA
CCAGAAAGGCGCGCTTGGCGCATTTGTGCTTGTATCTGATAATACGCAACCGAAGCAACGG
CAGACATTTCTCGATACGTTAATGGACAACTCTATCGGGAGTGGAGGGACACACTC
GGGTATTTCCGGAAAAACATTCGCAAATCCGCTGTGAGGAAATTACGGCTTGGATTGGA
AGATTTTTTCAAAAAGCGTTATACAGTACCGAAGATTGCGCGTTGCCGAATGCCTGGC
AACCGCAGGCGTGGGACTGACCTTCTGCGCTTCCCCGACAACAGCGCGCGGATACGC
AGAACACATCTGCCCGTCCCGTCCGCGAGCGGATTTGGCGCACGTTTCAAAACAAACAC
CGACCATCTGCTGACCCATGTCTTCAACGGCGGCAGCGCGGAATCTGCGGCACTGTG
CCCGCAAGACAAAATCATTGCTTTAGACGTTTATGCTGCAACCGACTTTACCGCACATG
GGCCCGATACCGCTCAATGCAAAAATCAATATCCACTTCTCCGTGCCGCGCATATTGCG
TCAAACCGTCTTGACGGTTTCAGGCAAGCGGAGCGGATGCTGCTTCTACATATCACAGA
CCGGAACCTGTTGGACAACCTGTTGTTGCGTTAACTTTTACAGCGGCATTGCACACAAAA
TGCCGCTGTA AAAACAACCGCAAGTAAGGAAACAAAATGGCCATTCTGAAACTTGACG
AACACCTCTATATTTCTCGCAACTGACCAAGCCGATGCGGAACAATCGCGCAACTGG
GCATCAAAACCGCTCATCTGCAACCGCCCCGACCGGAAGAATCGAACCCGACTTCG
CCCAATCAACAGTGGTGGAAACAAGCAGCGTTACTGGATTCCATCACCACCCGTTA
CCGCACGCGACATCCAAAAACAGATGTGAAACCTTCCGCCAACTCATCGGACAAGCCG
AATATCCCGTCTGCTTATTTGCCGACCGGTACGCGCTGCTCCCTCTGTGGGGCTTCC
GCCGGGCGGCAGAGGTATGCCGTTGACGAAATCATCCGCCGCGCCCAAGCGGCAGGCG
TAAATTTGGA AAAACTTCAGAGAGCGGCTGGACAACGCCGCTGATTACAAGCCGAAA
CGTTTAAACACACCTTCAAGCGGCATTCCACCGCAACTTGAAAAGAGGACGGCAACC
TTACTGCCGCTCTGTCTCTTCTCGTTTACAGTGGGAGACCTTTGCAAAAATAGTCT
GTTAACGAAATTTGACGCAATAAAATGCGCAAAAATTTTCAATTGCCTAAAACCTTCC
TAATATTGAGCAAAAAGTAGGAAAAATCAGAAAAGTTTGCATTTGAAAATGAGATTGA
GCATAAAAATTTTGTAACTTATGTTATTGCAAAAGTCTCAGTGGGTATAGCGGATTAA
AAAACAGTACGGCGTTGCCCTCGCTTAACCTCAAGAGAACGATTCTTAAGGTGCTGAA
GCACCAAGTGAATCGGTTCCGTACTATTTGTACTGTCTACGGCTTCGTTGCCCTGTCTG
ATTTTTGTAACTCACTATAAAATAGAAATGCACATTTTCAATTATCTCGCGCAGGCA
GGACTCCAGACTTACCATTTTCAATGTTTGAATAAAAGAAAAATCAGATGTTTGT
ATTCCCGCTGCGCAGAAATGGAGACGGTCTGCTGCTCATTTTGTGTTTAAATCAAC
TATATATAGCTGATTAAACATAAGAAATGCCGCTGAAAGACTTTTACAGCGGCATTGCT
CAAGCGTCGAACCTTTATTTGCGCTTGGTTTTCGTTTACAAAACCGATTGTTGGTGATTCTG
CCTGACGGGCGGCTTCTAAAGCTTTGTTTACATAATCGTATCCACCGCTTGTCTGCGG
CAATCGGCACAATCAGTTTTTCTGCTCCTTGGCGGCTTTTACAGCGGCTTTTCACTT
CCCCGATTTCACCTTTGCTTGCAGAAATCCCGCGGACATAATAGCGCGCTTCGCATCAA
TCGTCAGGCGCAGGGGCTTTAGGCTGTTTGTCTGCTTGTGTTGCTGCTCGGACGCGG
TCGGCAGTTCCAAAGGGATGGAATGCGTCAGCACCGGCATAGTAATCATAAACACAATCA
GCAACACCAGCATCAGTCCACCAACGGCGTAACGTTGATGTCGACATCGGAGAATCGT
CGCGGAATTCATCGAACCAATGCCATAATCAGCTATCCTTTTGTATTAAGCAGGCGGAC
GTGCAAACTCGTGGCCATCGCATCAAATCCTGGGTCAGTATTTTGTGCCGCGATTGAG
GAAGTTGTATGCCAACACCGCGGGAATCGCCACGAACAACCCGCGCGCTCGCCACCAG
TGCTCGGCAATCGGGCGCGGCAACCGCGCAATACTCATCTGCCGCTTTTGGCCGATATT
GATCAGGCGTGGTAAATCCCCAAACCGTGCCGAACAGCCGATAAACGGCGCGGTGCG
GCCGATGGAGGCAAGCGCGGTATCCCGTAATCAAACCGCGCATATCTGCGCCATACT
GTTGCGGATTGAAATGACCAATACTCGTTCAACGGCAAAAGCTGCGCCAGTTTCGACGCG
TTCGTTTTCGGCGGTAGTTGCGGTAAGACTGCAATGCCTCTTGCGCCAGTTTGGACAAGG
CGCATCGACGGCGCGCACTTTTTGACCGCGTCTGTCAGCGACAAAGTATCGCGCATATG
CCGTTTACGGCGGCATTTCCCTTTGCGCGCCGATACAGCTTGATGACGCGCAAGACAAC
CAAACACCGATTGATCTCATCAACAGCATCAACACAACACCAATCAGGACGGG
ATCGCCGATTCAAACACTAATTTCAAATTCATAATGATTCAAACACTGAAAAACCAAT
CAAACATCCAAGCTGCCGCAACCGCTGCGGCAACCGCCTAATTCATTAACCTTGACG
GGACTTTAAACTCCGTCCAGGCATTGGCTTGAAAATGCCGTTTTTGCGCCCTTGCCT

Appendix A

-404-

GCCGCATTGTCCAACCGGGGAAAAACCACTGCTTTTCACGATTTTAAACGGACTCAACATGA
CCGCCCGGAGAAACCAAAACGCTCAAAACACCGTACCCTGCTCGTCATTCTCCATAGAA
AGCGTGGGATAAGCCGGGCGCGGAATGCTGCCGTTGGCGCGTAAAGGATTGCCCTTTGCTG
CTGCCGGCTCCTTTCCCGGTTTCGCCCTTTGACACCGCCGCTACCTTTACCGCTGCCCTTC
CCGCCCGCGTTCCGCTCTCCTTTGGTACCAGTTCCTTATCTTCCCATTTGCCCTGCTCG
CTGTCTGCTTTGGCAGAAGCATTGCCGGGATGTTCCGGCAGGTTTTTCAGACGGCTTCTCG
ACCGGTTTTTCCGCCGGTTTCGGGACAGGCTTCGCTTCCGGCTTAGGCTCTGGTTTCGGT
TTTTCTTCGGGTTTCGGCTTTTCTTCAGGTTTCGGCTCTTCTTAGGCTGCTGAATATCC
GCATCCGCCCTTTTCGTAAACCACCGGCTTCAAACCGGCTTGGGCGGCTCGACAGGTTTG
GGCGGCTCGGGCAGGGTTGCGGTTTCGGGCGCAGCAGGCGCGCTGCACCTTCGGGGCGG
CCGTCCCTCCGCCAAAATCGCCAAAATCGACAAAATCAATAACATTGCCTGACTCTATC
ACGGGCGAGCTTGTGCGCCTGCCAGAGCAATGCCACCATTGCCAAAATGCAGCAGTGCAGC
GAAAACACGAGTCGGGGGGTTAAATTCGTTCTTTATCCATAATTCGGGCATAATAATAG
CAACAATTCTCTATTGTCACACTATTTTACAATTTTGGTCATATGAATGCTGTTCCGT
TCACAGGCAACCGTGTAAACGCTGTATTACAGCAAATCATCAGATAACGGGCGGCA
GAAAATATGATTCGCTCTGATTTCTTATTCAAATAAAATCAGGTTAGATGATATATTGCC
GCTTCTGCTGTGTCAGCGTTTCGGGCTGCACACCACATCTGTTCAAAGGAAAACCATGTT
TCAAAATTTTGATTGGGCGTGTCTGCTTGGCGCTGCTGCCGCTGCTGCTCTCCATTAC
CGTCAGGAGGTTGGCGCGCGGCTATACGGCGCGCTACTGGGAGACAACTGCCGAACA
ATACGGCAGGCTGACACTGAACCCCTGCCCATATCGATTGGTCGGCACAATCATCGT
ACCGCTGCTTACTTTGATCTTACGCCCTTCTGTTCCGGCTGGGCGCGTCCGATTCTCTAT
CGATTCCGCAACTTCCGAACCCGCGCTTGCCTGGCGTTCGCTTGCCTGCTCCGGCCC
GCTGTCGAATCTAGCATGGCTGTCTGTGGGCGTGGTTTTGGTGTGACTCCGATATGT
CGCGGGGCGGTATCCAGATGCGCTTGGCTCAAATGGCAAACTACGGTATTCTGATCAATGC
GATTCTGTTCCGCGCTCAACATCATCCCCATCCTGCCCTGGGACGGCGGCATTTTCATCGA
CACCTTCTGTCCGCGAAATATTGCGAAGCGTTCGCGAAAATCGAACCTTATGGGACGTG
GATTATCTACTGCTGATGCTGACCGGGTTTTGGGTGCGTTTATTGCACCGATTGTGCG
GCTGGTGATTGCGTTTGTGCGAGATGTTCTGCTGACTGGCTTCAGACGGCATAAACGCTC
CAGAAAACGCGGAGGACATATTGCCCTGCCGCGTTTTCTGTAGTGAATCTTATTTTT
TTCATCATATTAGAACAGGTTGCATGATAATACCTTTTCAATTAACGAAACACTGATTA
AGAACTCCAGTGTCTAATGATGAGGTTTTCACATCGCCAAAACCTTGCCAAATCAAATG
CTGGATTATTGCCGCTGAGATTGGTCAAATCCAAAGGCGACATTCTTAGACCTGTG
TGTAATTCAGGGGTATTTTGGCGTAAATCGTCAAACGCTTGGATGAAGGCTTGACCAAT
CAATAACAGATAAACAACTCGCATTAACACATTTTAAAAAATCAAGTTTTTGAAGT
ACTGCCACGTATGTAGGTAGCTTTGACCGATATTGTCATAAAAACTCCTTTGCTGGTGAA
AGGAATTATTTTCCAATTTTAAATATTCTGGCACCAATAGTACAATGACAAAGACA
ATCATGCCAATGATTAATCAGGATAGCTAGAATGAGTCAATAACGTCAATGCTCCCGCC
GCTATCACACCGGATATTGATGATAATGTCATTGGATGTAATAATCATGCTGGCTTTGATA
TGGATTTCTTTATTTGATTTTGTCTAGTAGATATAAGCACAGCCAGTTTGAATCAAT
GCCAAAAATGCCGTGCCAATCATAGTTGATAATGGGCGAGCTGCTCAGCACCGGATAAAA
CGCTTAATCACTTCTATCACCCCAATAACGCCAATATTATCTGCGTTATCCCCGCCAAA
AATGCCACACGTTTTTTATACGCCAGCGTCATACCAATGGCTGATAGCGCCAATATATAG
ACAAAGCTGTCCGCCAGCATATCTAGACTATCAGCAATCAGCCCCATAGAAATTAGCAAAA
ATACCAACCGAACACTCTATGATAAAAAACACAAAGTTAATCATGAGCACTTGATATAAT
AATCTTTTTTCTAAGTGCTCATCAGGCTTGTAAACACTATCTTATCAACAATCACTTCG
GTGGAATGATATGACTATCAAAATTAAGCGGTTCAAGTACTTGTAATAATCGTTGTATCT
TGATTATCGTGATAGACGGTTAAGCACCGCCAGCAATATCAAACGTGAATTCATAAATA
TCAGACACATCTTTTAAACGCGATGCGAATGAGCTGTTCTTCGGACGGGAGTCCATTTTG
GTAATGTTAAAAATGGTCTTTTTTCATCTATTTAGTTCCTTTGTTTGTATCAGGTTGGCTCA
AATAAATCTGTGTTTATATTGCTGCTTGGTAATTTTGGATGGTTTGTAGTAAATTGATTA
GGTTAAATTTACCTTTTGAAGTACCGCCACGCATAAGTTTATAGATGTTTATAATCT
CTGGATAAAAAAACGTAATAAGTGCTTACTGGATAACAAAGTCCAAACCAATAGCAGGCA
AAATAAGGCATCCACCCCTTCTTCATTAAAGGATATATATTGAGAAACAAATCGCAACT
AAACAGAAAAAATTTGGGAGATAAAGCCATTTTCAATCCCTATTCAAGAATCTAGCCAAG
ATAGGTATTTTGTATTCTACAAAAAAGAAAGGCATTTCCAAGGGAAACATGTCAGATAAA
AACTTTTGTATTATTTTACTATAGATAGAACCTTGCTTCTCAAGAGAAAGCCATTAAATA
ATACCGATGACAGCTATTAATATATAGAGAAATAGTATAAGTATGAATAATCTTCATTAGA
CAAAAAGAAGAAATGGCAGATAAATTACATACGATATATTGGAATATAAAATATTTACGG
TCTAAACCTTGTTCAGTTGCAATTTTTTTTAAATTCCTTGCATAAAAAAATCAAAGGCG
TCCATTAAACTATCTTTCACATTAGAAATTTAAAGCTAAATAATACGACAAACAATGTG
AAGTACTATTATGGTTTTATTTAAAAATAATACATTCTGAACATTATTTAGATACAGA
AATTAACAAATTAAGAATTAACAAGCTTTTAAATACTTTAATTTTATTTGAAAGCTATAA
AAGGAATATAACTTTACACACTAGTCACTCTTTTTTAAGAGGCAAAAGGGATTGGGAAG
GTCGCTTGGAGATAAGCACTGGTATTTCGGCCAATGGTAAATAGAGTTTACCTCAATA
GGGTAGAACCTCTTCACTCTGCTAGTTAATAACAGCCACTTTTACATGCGCTGTCAAAA
TAAAGCGGCACGCCGATTTTTACTCATCGTCATCAAATAACCCATCACCTTTTGGGGC
CATTCGATGCCGCGCACCCAGGTCAGATTCTCAAACCGGGGAAAACCAAAATATCTCC
ATACCGATTCCGCGCTGATGCGCTGTAAGCACCGTCCATCAAATTTTCCAACTCTTGC
AAATCTGCGTTTATCCGTTTCGAGGTATGGGCGGTTTTATTCAAATTTGGCGGAAAAGCTG
CCGATGCTTTTCTTTTTTGTCTGTAATAATTTTACCCTTCCGGCGTTGCAAATTCAG
GGCAGCCGATTTTGATACGCGCGGCTGCACACAGTTTGTGCTGTATCCGCCACCTTG
TCCAGCTACGCCCTTCACTTCGGGGCGGACTTCGCTTTTACAGCGGCTTTCGCGGTGCAAA
TGCCGCACAATGTCCAACTCTCGCCCATAAACGAACCGCTCTCTTTTGCAGGACGGGC
ACTTGTTCGCACCGATCATACCGATCGGCGTTCGCTGCTGCTGCTTGCAGCACGGCT
TCTTCAACGTCCGCGCAACAGCCGCGCAGCATCCGCGCAGCAGCAAAACGGGCAA

Appendix A

-405-

TGGTCGTAAATATACAGTTTCATCAAAATATTCTCGTCAACCTGTGGTACCGACTACC
TTAACACCCCGCGCCCGCCGAAACAAGTTTATCTTCCCGCTATGCACCGTAAATAAATA
AGCTGTTACAATAAACTCGTTTTTATCGGAACGGAAGACCCCATCATGACCGCCATCAGC
CGGATTCAAGACACGCAAGAGCGGACTCTGCAAGAAATTGCGCGAATGGTTTCGACAGCTAC
TGCGCCGCTCTGCGCGACAAACGATAAAAACCTCATCGGTACCGCATGGTTGCTGGCGCAG
GAACATTACCCCGCGATGCCGCCACGCCGTATGGCGAGCCGCTGCCCGACCACTTCTCTC
GGCGCGCGCAAAATGGTTTCATGAACTCGACCTGCTCCCGCATGCCGTGCCGCCACCTTG
CTTGCCGACATCGGACGCTACGTCCTCCGACTGGAACCTATTGGTTTCCGAACGCTGCAAC
AGTACCGTCGCCGAGCTGGTCAAAGGTGTGGACGAAGTGCAGAAATCACCACCTTCGCC
CGGGTGGACAGCCTCGCCACGCCGGAAGAAGCGGCCAGCAGGCAAGAACTATGCGGAAA
ATGCTGCTGGCGATGGTTACCGACATCCGCGTCTGTGTTAATCAAATGGCGATGCGTACG
CGCACCTTGCAATTTTTAGCAACGCCCGGACAGCCCGAAAAACGCGCGCTCGCCAAA
GAAACCTCGACATCTTCGCCCGCTCGCCAACCGTTTGGGCGTGTGGCAGCTCAAATGG
CAGCTCGAAGATTGGGCTTCCGCCATCAAAAGCCGAAAAATACCGCGAATCGCGCTG
CTTTTGGACGAAAAACGCACCGCAACGCCCTCGAATACATCGAAAATTCCTCAACATCTG
CGCGGTGAACCTAAGAAATACATGTCCATTTCGAAGTCGCCGGCCGCCGAAACACATC
TACTCCATTTACAAAAAATGGTGAAGAAAAACTCAGCTTCGACGGCTCTTTGACATC
CGCGCGGTGCGAATTCTGGTTGATACCGTCCCGAGTGTACACCACGCTGGGTATCGTC
CACAGCTCTGGCAGCCCATTCGCCGCGAGTTTCGACGACTACATCGCCAATCCCAAAGGC
AACGGCTATAAAAGTTTGACACCGCTCATCGTCGGCCCGGAAGACAAGGCGTGGAAGTA
CAAATCCGCACCTTCGATATGCACCAATTCACGAATTTCGGTGTGCCGCCCACTGGCGT
TACAAAGAGGGCGGCAAGGGCGATTCCGCCCTACGAACAGAAATCGCTGGTTGCGCCAA
CTCTTGAGTGGCGCGCAAAACATGGCGGAAAGCGCAAGGAAGACCTCGCCGCCGCTTC
AAAACCGAGCTTTTCAACGACAGATTATGTTTTCGACCCGCGACGGCAAGTCTCTCC
CTGCCACGGGCGCGACCCCATCGACTTCGCTACGCCCTGCACAGCAGCATCGGCGAC
CGTTGCCGCGGTGCGAAAGTGAAGGGCAGATTGTGCCGCTGTCCACCCCGCTCGAAAAC
GGACAGCGCTCGAATCATTACCGCAAAGAAGGGCATCTTCGTCAACTGGCTTTAC
GAAGGCTGGGTCAAAATCGCAACAGGCAATCGGCAAAATCCGCGCTACATCCGCCAGCAA
AACGCCGACACCGTGCAGCAAGAGGCGCGTCCAACTCGACAAACAGCTTGCCAACTC
ACGCCCAAAACCACTGCAAGAGCTTGCCGAAATCTCGGCTACAAAAAGCCAGAAGAC
CTCTACACCGCGCTCGGCAACAGGCGCAAAATTCACACCGCGCATCCAAAAACCTCGCG
ACGCTGAACGAACCGCGCGCCGTACCCGTACGCGAAACACCATCGTCAACAGTCCAAA
ATCAAAAAGGCGGCAAAACCGCGTGTCTATCGACGGCGAAGACGGTCTGATGACCAG
CTTGCCAAATGCTGCAAAACCGCGCGCCGACGATATTATCGGCTTCGTTACCCGCGAG
CGCGGCATTTAGTGCACCGCAAAACCTGCCGCTTTTCCAAACCTCGCCGAACACGCG
CCCGAAAAGTGTGAGCGCAAGCTGGGCGGCTATGAGGAAGGACAAGTATTCGCCGTC
GATATCGAAATCCGCGCCCAAGACCGCTCCGGGCTTTTGGCGACGATACCGACGCGCTC
GCCCGCCACAACTCAAGCTTACCGCGTGCAAAACCGAGTCCCGCGACTTGAAGCCAGC
ATGAGGTTACGCTCGAAGTCAACAAGTCAACGACCTCCCGCGCTCCTCGCCAGCTC
GGCGACGTCAAAGGCGTATTGAGCGTTACCCGGCTTTAAATACAAAAATGCCGTCTGAAA
GCCGAATAACGCTTCAGACGGCATTTGATTGCCGGGTTTGCTATTTTTTTGTTGCATAG
TCAATTAATAACAAATAGTACAATACTCAACTTTGAAGGTCTAACCATGGCATACTCTG
CGGACTTAAGAAACAAAGCTTTAAACTATAGTGGATTAAACAAAAATCAGGACAAGGCGAC
GAAGCCGACAGTACAATAAGTACGGCAAGGCGAGGCAACACCGTACTGGTTTAAAT
TAATCCACTATATTACGCAACAATGCAAAACATCAGCCAAACCGCAGCAACGTTTAACTT
GTCAAGAAACACACTTTACCTGTGGATTGCTTAAAAACAAACAGGCGAGCTTAAACA
TCAAGTTACCGGTCTAAATGCCGTCAAATCGGATAGGCAAAAAACCGGCTCAATATGTTGG
GCAACACCAAGATTGCCTATGTCATGAAATCGCCAAACATTTGATTGTACGGCAGCCAC
CGTTTGCTATGCACTCAACAGATGGGGATAACGCGCAAAAAAGACCACCACTTACAAA
GAACAAGACCCGCGCAAGTAACGATTATTTGACACAGCCGGCGGAATTTCTGACTAC
CAACGCGTTTATTTGGATGAACAGGATTGACCGCCACCTGTTCCGTCCTATGCCGCG
AGCCTGAAGGGCAAAATAGTGAAAGCGCAGATAAGTGGAAAAAGATACCGACGCTTATCT
CTGGTGTCCGCAAGTGCAGCAACCGGCTGATTGCTCCGATGGTTTATCAAAATACGATG
ACCGGAGTCTTTTTGAAGCGTGGTTTACGCAATGCCTACTGCCCGCATTGACTCAAAAA
TCGGTGATTATTTAGATAAATGCACGATTTCACCGTATGGGTGTCTTACGGGAAATGGCG
GAAAAATTGGGACATAAGGTATTGCCCTCTGCACCTTATTCACCTGAGCTCAACCCGATT
GAGAAGGTTTGGGCGAATATTAAGCGGTATCTGCGAACCGTATTGTCTGATTACGCCCGA
TTTAACGATGCACTACTGTCTTATTTGATTTTAAATTGAATATACATTTGAATTAATTCG
CACTTAATTTAAATGTGTTTTTAACTGTGCTTTATTTAAAGGCAATGAGAATGTGAAAA
ATCGGATCAATCCCAAAGCAGCTGCACCTTCGAAACGGGGTGACGGCTGCTTTGGGAAT
TTCATAACCGTTTCAGCTGCTTTATTCCGCAAAATACCGTTTCCAAACCTAACCCTGCTCT
CTTTACCAAGCGCAAAATAGCCAGCATGAATTTATACCGTGTCTGAGCCAGTTTCTGTT
CTGCTTGGGCGACTTCTGCCGCGCCGCTATTACTCCAGCCGGTTGCGGATGCCGCTATT
GTTGGCCGGTTTCGGTGCATTTTCAGTTTCAAACGGCTGCTTTCCAAACCCGTTCTTGCG
CCATGATTGGTTAAGCGCGCCGACCGCTTTCGGTATAAGCCTGGCGTACGGCGAGTTTGA
TGTGCCGCTCGGTTGCGGTGAGTGTGCTTCGGCGGCCCGCTATTGCGCTTCGGCTTCAT
GGATTTTGGCCGCAATTTCTCCGCGGTATAAAGCGGCAAAATCAACTGTACGCCGACGC
TCATCCCTTTGCCCGCATAGTGGTAGTCATTATTCGCGCAGATGAAGTGTAGAGGTTAT
TCTGATAGCCGATGGGAGAAACGGTGGGATAGCGGCTGTTCTGTGCTGCCGAAAGCG
CCTGTCCGCTGCTTTCAGGGCAAGCTGCTGCATCCGGTATTCATGATTGTTGGATAAGG
CAATGCGCTGCCATTATCCAGACTGTAACGTTCCAGCTTGGGCGATAGCGTGCCAAACA
GGTTGGCGGTATCTATGGCCTCGATTTGTTGCTATCCAGGTGCGGTGATGCTGCTCACT
GGTTTTTCATAGGTTTGTCTCAGCCAATACGGCGATTTCCTGGGCCAGGCGATTGTCGT
AACCGGCTTTGGCTTCGTGAATATCCAGCGCGGTGGCAGCACCTTTATGAATAAAGCCT
GCGCCTGCCTTACCTGCTGGGCATAAGCCTCTTTTCCGCCGATGGCGGCAACGGTGT

Appendix A

-406-

CTCGGCTGAGTAAACGTTGAAATAACTTTTCGGCAACTTTCAACAGCAATTCTTCGCGTG
CCGCATCGAAACGCTGTTCTGCAGCTGCGTATCGAACCTGCTTTGGCGGTATTGTGCAA
ATTTGGCAGCGTCAAATAAGGTTTGTCCACCTGCACGCTCCATCCCTGTGTTTCGCGGG
TGGAAGAAATCGATTGGCGGCTGGCGCTGGTAGCTGGCATTGGCGGATACATGGGGAAGGA
ATGCGGCTTGGCTGTTGTTGCGCTGCGCGCACTGCATCAGCTGGTAATGGGACGCTT
GAAAATCAGCCGAATGTTGCTGCGCCGCCCGCCATGCTTCAGGCAGCGTAAAGCCGAAA
CGGATGGGGAAGGGATAGTGGCAAGGTAAAAAGTGAAACGGGTAGGATATATTTGGAAA
AATAGGATTTTCATAGCCGAAAATAGTTTCATGTTGCAAAATAGGGCGTCAGTGTGAGGCAAA
CGGAAATACCGTAAATCTTCATTATCATTAGATTGAGCAATGTCTCCGGGCAATGGTTT
CAGGCAGTCTGCGATGTCCGAACCGGCGGATAACAAATGCCAGTACGGATCCGCTATCG
CTCCCTAAAGCTTTTCGTCCAATTTGGTTTGCAGCGGGCTTAACAGATAATCCAGCACCCG
CCGTTTACCCGTTTAAATCTCCGCGGTGACATTCATGCCCGCCGTCAGATTCACTGCTTT
GCCGTCATATTCAAGGTATGTTTGTCCAGCGACACCACCGCGTATAAACCAAGCCAA
CTGTTCTGCGCTTACCGCATCATGGCTGACACTTTTCACCTTGCCGTCAGATAACCGTA
GGCGGTATAGGGAAGCTCTCAATCTTACCACCGCATCTGTCCCTGTTCCACAAACC
GATGTCTTGTTCATACCAAACTTCCACGTCCATTTTGTGTCATCGGGCGCAATCAC
CATCATTTTGTGGCAGCCTGACACACACCGCCACCGTATAGGTAGCCAATTCCTGCAC
CGTGCGCTCCGAGGCGACTGTATTGTCTCAGCTGCTGCCGCTGCTTTGCCTTATCCGT
TTGGCCGCGGTATTGGTCAATCTGTCTGTTGCTGGCGCAGCGCATCCAGCGTATCCG
TTTCAGGTTCTGCGTATTACAGCCGATTCTGCTCCGCTGTGCAATGGCCGCTGAAT
CTGCCCTCATCTGACCGCGCTACTTTCCAAATCGTTCCAAATGCTGACCGATTGCTCTG
CTGCTCCAAAACGCGATGTTCCGAAATAAAATTGTGCGCCCGCAACGGCGGTAGTCTGC
TGTTTCTGCTGCTCGATCGCCCCACCGAAACAGCTTCTGCTCCTGCGCCTTGGCCGA
TGCAATTTCCGCTGCTGCGCGCGCAAGCCGACTGCAATGCGCATCTGCGCGCGCCA
TGCTGATACTGGTGTGCGCCAACACCTGCGCGGATTGCACATCGGCATCGGAGAGACC
TAAAGACCGTGCTTGGCGCATATCGATATGCGGCACGGTACGGCTTTCCAAATGCGCGCAA
TACCGCTTCATAACGCACTTTGGACAATTGGGACGCTGCAAGCCTGCTCCGACTGCAC
CACATCGCTGTCTGTTCCACAGCCTCCAGTTCCGCCAGCGTTTCTCCCTGTTTCACATG
CTGCCCTGCGCGCATGTACCGCTTAACACCGCCGTTTCCAGCGGCTGGATGGTTTT
GCTGCGCCCGCCGACACCGTTTTGCCCCAAGCCGCCGCCACAATATCGATTTTGGCGAA
CCAGGACCAACAAAGCCAAAGCGCAACGCCATAATAAAACGCGCCCGCATTTTCGG
AGCGGCAGAGACCGCGTATCGGTGAGTTCCAAATGCGCGGGCAAAACGCTGTTCTTC
CGCCGTGCGTTTGGGCGGTTTCAACTGGTGGCGCACCGCCCAACATTGCGCCATACAGT
AATGTATCGAAGAAAGAGGATTTAGGGCGGAGAAAACATAACGGGTATAACCTTGGC
AATATAGAAACAGGAAACAATATAAATATGTAAGGAATTTAACGGAAGCGCGGCAGC
TGTTAAGGGAAAGCGGGAATATTGACAAAAATACCAAGTCGTACAAATATTCTATTA
TTTTACTGCGTAACGCAACGCTGAAGCGCAGGCTGCTTTTGAGATGCGGCAAGGTTGCGC
AAAAAGCAGCTTCACATTTTAACACAGGAACAACCCATGTTTACCACAAACGATTACG
CCATTTCTAGAAAGTTTGGCCATCTTCTCAATCGGCTATTGGGGACCATGTGCT
GTTGCTTTGGTTTCTGCTCCGCTTTGCGCTATAAAAGCCCAACCGGAACCCCGGCAAAAT
CCTTTACGCGAGCTGACCGCGCGCTATCCTGATGCTGTTTGGTTGGATTATTCCCAA
ACAATTCGCGCCGATCAAAGAAGAAATACAGGCACAAGAAGAGTGGGACAGAAATACAA
AGAAGCCGAAGCCGTGTTTAACGAACAATGCAAAACGGCGGGGAAAGATTACCAGACG
GCGGACAATGTGAAGAGGATTGCTGTTGAAGGTAGTACCTGAGCGTACCGTTTCGGCA
GATGCAAAACAGAGACCCGATGTGGGACAATGCGGCTTTACAGACCAGCGAAGCGGTA
AATTTTATTGCTGCTTTCTAGGATTTTTAGCGATGGGGAATACCGCTATGTGGATGTC
CTGCAACCCAACCATTCGATATTATTGCGGTATTAGGTAAGATTTTTCGCTAAATCA
AATATTTAATCATATACACCCCGCGCTTATGCGGTAACGTTGCAAAACAATGTCGATT
CAAGCTGCGCAGGCACTGGGTGGCAGGTGCGACCATAACGATTATCGACCGCCAACTGA
CGAAGTGATTGCGCAAGAAACCATCTATGCTTTGAAAAAGGCTTGGACGGCACGGGTGG
GGCGAAGTGGCGGTAAGGTTTGTCTATCTTGTGCAATAAAGAAAGACTTACTTCTCAGA
GCCGTTATCGGATTTTGTCTTAGCGTTTTAAACCTTATATATTGCGTCCCTTATATAT
TGCGTCCCTAAGAAGGGACGATTACAAAAATTAACGTCCTTTACTTTCTACAAGTAACA
GGGCTTTTTTTTGGCCGTTTTGAGGATTGCGACCATGGAAGATAAGCAAGGGATGACAA
AGGCGGTTGCGCGGTGATGACGGACGCGCTAGCGGACGGCAGGAGCGGACCAACCGCTT
CAAATCTTCCCCCTTATCTAACAGGGGGGACAGAAACCGAAACGGCAGGCGAGGTTCA
GGAAGTCTTCAATGTTACGAAACGTACATAACGGACGGTAAAGGAAACCTGTTAGGCGT
TCTCTTCGGCGCGGTGATCAGATTGCGCTTTCATTGATCAAATTAGCTTTTCATTCA
TGAAAAAACCTTTTTCGATAAATACGGCGTTCTGTGTAAGTCTTTTGAAGACGAAGATT
TATTCGCGCGCGGTCCATGCTCGCCGAAGAAGTTTTGCGTTTCGGTATCTACAAAGAATC
CAAAGGTTGCGGCGGTGTTTCTATGAGCGCTGTTGGTTGATGGGTTGGAAGACGCCCT
ATACGGTTCGCGCTCAATTTTGGCGGCAACAAAAATCCATCTTTTCGAACGTACCGGCAC
CGGTTGCGGCGTCGCAAAAGAAGGCTGGGAATCACGACTTTTCGATTCCTGACTAATGC
AATCCGCCCCAAAAATCACACGCTTGACATCGCAAAAGACTTTTCAACGGCGAATACAG
CCCGAACCAGCCGTTGAAGACCGAAATAAAGGTATGTTTACCTGTCATCAGTCAAACC
AAAAGGCGAATGTTTGGGGTCAGATTGGGAAGAAGACGATGAAGCCAAATGACCAAAGG
CAAGACCTATGTATCGGCTCCGTGAATCGTCCAAATATGTCCGCGTCTATGAAAAAGG
CAAGCAGTTGGGCGATAAACAAAGCACATGGACGCGATTGAAATGAATTCAAAGCAAA
AGACATCGTTATCCCTTTCGAAGTTTTCGAGAATCCGGGCGAATATTTGCGGCGCGCATA
TCCGATTTGCGAACGATTGCGCCAAAAGGCAACGCGCATACACGCGGTTAAGGAAGATAA
GGTCAATTCAGCCGACCGCTACCTTGAATGGGTAAAAAACAGTTTCGACGTGCGGCAAA
CGGCTGAAATCATTTTTTCCGGAATTGGACAAAGCCAACTGTTGAACGTATTGAGCC
GAGTCATCACAAGCTGCCCAAGTCTTTGGCTCCGAAGCCTACGACTGCGCCTTTTGA
AGCTCAAGCCATTATGAACAGCCCGCATTCAAACCGTACAAAGACCTTACTATATGTA
CGAATATTACGAGAATCTTGA AAAACAGCTTGAACAGCAAAAACAGTCAACAATGAAGA

Appendix A

-407-

AAGCTATAACAACCTTCATTTACGACAAATTCGCAAGACTACCGATTTCATGGGCTTAAAG
TGTCTGCCCCGAAAGACGTTTAAATCACACAAGGAAACCAAAAAATGAACATCCAACCTCAA
GGCCACATCGTCCGCGTTAAAAAATCAACGGACAAATCGAAGGCAAGAGCTTCGACTAT
TGCTGCCTGATTGTCGCCACACCCCTTAGACAGCTCCCAAGGCAACGCATTGGGCAGCTCT
ACTACTGAATACGATTTCCGGCGGCTCTGCCAATTTTCGAGCAGTTCCGAAACGCCCAATTT
CCGATCGAAGCAAACTGAACGTAGAAATCGTCACTACGGGCAAAACCCAAAACTGAAA
GTCATCGGTTTTCAACTCGTGAAGAAAGGCTGATTGAATGCAGAAAGTCTATGTTGTCCA
GTCCGTATCAACAGGGGACTTTCTGTATCTCTCTCTGAAACGGGCGACATCGGACATAC
CAAATTAATCACCATGCGGATTATTTCTACGACTTCGAAGAAGCGATTAAACGCAGGTTT
GGAAGAAATCGGCAACCAATACGAATTTGTCGTATTCGGATTTTGAAGAGCTGATTTTC
GGATGTTCCGGCGGTCGTCTGAAAAACGCTCCATCCATTACCGCCAAACACTTTTTGAAGG
AAAATATCATGAATTTATTAACACCTGCCGTAAATACGGCGCAAACTGGCTGTTGTAA
CAGCTGCTCCCCTGCTTTGGCCGCACATGCAAATGCAACGTTGCCGATACGGCAAAAA
ACGCTTTGGAAGCCGCAAAAGCGGACGGTATGGAAGCCGGTTGGATTGTAGTGGGCATTT
TCGCCGCGCTTTTTGTATTTTCCATCGTTAAGAGAGTGATGAAGTAAGACGGCATGTACT
ACCAAGTCGGAATAAATGTCTTGAGAAGCACCAGGCTGAAACCTTTATTTACAGCTTGG
TAGTACCAAGAAATCAAAAGCAAAACGGACAGATTGTAGGCGCGAATATAACGGCAGCCTGT
GGAAGATGTCGGACGGTCAGCCGCTAAGGCTTTTATGGCGGAATGCAGTCCGAAAGACA
ACCTGCAAAAGCGCTCTTGAACAGGCTGGATAGTATTCGGCATCCTCGCGTCCGTTTACT
TTGTTTCCCTGCTGAAAAAGGCTTTGAAATGATGGATTTTTATTTTATCTCGGCGTTTC
CGTACCCGTATTAATCGGGGCGGTTCTGTTTAAAGAATTGAGCGCATGAAGTTATGGTGTC
AAAATCAGGCTTTTAATTAGACATTTGAGGCTTGAACCATGAATAAAAAATGAACGTGAC
TTTTTCTATATCAATATCTGATTTAGATAAATGTCAGAATCTTATCCTGATAGGCCT
CTTTCTTATGTGTTTTATTTGTTATTGAAAGAACTGGTCTATTGAAAAATTTCTCAATG
GATAAATGTCATAATTTTTTAAATAGAATTAATTTTAAATGAATCTTGCTTTGAAATTA
TTCAAGGATGATTCATTTTTTCAATATTGGCAATGAAAAATGATGTTTCGGATTCTAAT
AATTTCTTTTCTGTTTCTTTTGGTGTAGTGTAAATCTTTTTCAGCAGATTAGAATAA
TGGGAAATGATGTATGCACCTTTTCGAAAAATATAACGATAATGGATTAAAGGCATACAA
AGTTTTAGGTGAGGGAGGAGGAATTCATACAGAATAAATACAAATTTGATAAAAGTTT
GAATTTGAATGTATTAGAAAGTTCAACAGGCGCACGCTCTCTTGAAGAAAGTCCCGTTAA
AGTAACGTGCATCAGTTTCCCGCGCCGCGCTTGTGTCAGGAGTCGGCAAACTTGCCCGCTT
AGGCGCGAAATTAAGCACAGGGCAGTTCCTTATGTCGGAACAGCCCTTTTAGCCCATGA
CGTATACGAACTTTCAAGAAGACATACAGGCACAAGGCTACCAATACGACCCCGAAAC
CGCAAAATTTGTAAAGGCTACGAATATAGTAATTGCCTTTGGTACGAAGACAAAGACG
TATTAATAGAACCTATGGCTGCTACGGCGTTGACAGTTCGATTATGCGCCTTATGTCCGA
TGACAGCAGATTTCCCGAAGTCAAAGAATTGATGGAAGGCCAAATGTATAGGCTGGCAGC
TCCGTTTTGGAATTTGGCATTAAGAAGAACTGAATAAATTAAGTTCTTTGGATTGGAATA
TTTTGTTTTAAATCTTGACATTTAATTGGAATGGCGGAGATTGTTTGGTCAATAAAGG
TGATGATTTTCAGAAATGGGGCTGATTTTTCCCTTATTCGCAATTCAAAATACAAAGAAGA
AATGGATGCCAAAAAGCTGGAAGAGATTTTATCGTTGAAAGTCGATGCCAATCCCGACAA
ATACATAAAGGCAACCGGTTATCCCGGTTATTCGGAAGAGTGAAGTCGACCCGGAAC
AAAAGTGAATATGGGTCCCGTCACGGACAGGAACGGGAATCCCGTTAGGTTGTCGCAAC
ATTCGGCAGGGATTTCGAAGGCAACACCACGGTGGATGTTCAAGTAATCCCGCGTCCCGA
CTTGACCCCGGAAGACCGGAGCAGCCGACAGCCGCTGCCGGAAGTATCGCCCGC
CGAAAAACCCCGCAAAACACCCGAACCCCAATGAGAACCCCGGCACGAGCCCAATCCCGA
ACCCGACCCCGATTGAAATCCCGATGCAAAATCCCGATACGGACGGACAGCCCGGCACAAG
ACCCGATTCCCGCGCGTTCCGGACCCGCCAAACGGTAGGCATCGCAAAGAAAGGAAAGA
AGGCGAAGACGGCGGGCTTTTGTGCGATTATTTTCCGGAATCTAGCCTGTCAGGAGAT
GGGCAAACTTCAGACGGCATGTTTACGATATAAGCATACCGCAGGTTATAGACGATAA
AACATGGTCTTACATAACTTTTTACCGTCTAACGGCGTATGTCGCGAGCCGAAAACTT
TCATGTTTTCCGTTAGGCAATATCAGGCAAGCTATGAGCCGTTATGCGTGTGTCGCAAAA
AATCCGTTTTGCGGTACTGCTCGCCTTTATCATTATGTCGGCTTTTGTGTTTTCCGTTT
GTTGAAGGGGAAATAAATGCCATTACTTGCCGGTCTGATTCCACTTTTAGGCATACCTCT
GAAAATGCTGATTGTCAGAATAATCCTTGCAACAGGTCGACATTTGTAACCTATGCCGG
GTATCTCATCGGCTGGAAAAGTTCAAAGACTACCGTCAAATGCGATCAATTCATGCC
TTCCGACATACTGAACCTTCTTTTAAATTCGGGATTCGGTCAGGGGTTGGGCTACCTGTT
CGGCGCATTTCTCGTTCTTCAATGGTATGCACGATTCAAAAACTGACGTTTGTCTTTCC
AGGATGAGGTAGAAGCATGATTTATCTGTTTACAGGAAACATGGGGACAGGCAAAACCTC
CCGCGTCGTCTCTATGATTTTGAACAACGAAGACGGATTGTTCAAATGAAATTGGAAGA
CGGCACAGAGGTAGACAGACCGCTTATTTCTGCCATATCGACGGATTGGATAAACGGCA
GTTTAAAGCCCACGAACCTGACGGAAGAGCAATCATGTCCGCCCGCTTCGTGATGTCAT
ACCGGAAGGCGCAGTGCTGATTGTTGACGAAGCGCACTACACTTATCCGGTACGCGCGGC
AGGCGGTCCCGTTCCGCTTATATTCAGGAACCTGACAGAATCCGCCATCAGGGGCATAC
CGTTATTTTATGATGACGACGACCCGAGCCAACCTTGATATATTCGTCGCAACCTTGTTT
AAAGCATGTACACCTTGAACGCAAGGCAATCGGAATGAACAGTATTATTGGTATAAATG
CGTAACCTCGTTGGACAATCCCGCAGGCGTAAGCGGCGTAGAAGTCGAAGTTGGAACC
GCCGAAAGAAGCCTTAAATACTATAAATCAGCAAGCCAGCACCAAAAGTTCAAGAAAAA
AGTACCTTGGGCGGTTTGGGCGTTGATTGCGATTGTAGGGTTGTAGGCTGGAAAAGTTA
CGGCATTTTTAAAGTTTACAGCAAAAGCCACAGACAGCCGGATTGAGCAGGAAGCGCAAAA
AGAAAGCGTTGTGACAGACGATGACGGAGCAGCCTGCATCATCAGAGGAAATGCCTTTAAA
AAATTCAGACAAATTTGAAACCTGAAGACTTTGTGCCGACTTTACCCGAAAGCCCGAAAG
CAAGCCTATTTTAAACACAGTCCGACAAGTAAGTAAACCTTTGAGCAAAATCGCCGATGTAT
AGACGGCGGAAATCAGATTGCACATGCTATTCAAATCAAGGAACACCTTTGAAAGAAAT
AACAAAGATAATGTGTAAGAATATGTGAAAAACGGGTTGCCTTTCAATCCTTATAAGGA
CGAACAGCAAAGGACGGACAGGTGGAACAGTCCCGGAAAGCGGACAAGCCGCAAGTTCT

Appendix A

-408-

CGTAATGGGCGGAAAGCCGTAGCAAAATCTCATGTACGACAACCTGAAGAGCGCGGAAAAAC
CGTTTGAAGGAATTGGCGGCGGAGTCGTAAGCAGAAAAGTTCAATCCCTACCCCTCAGGA
TGGCTTGAGCTAGGTGAAGGGGGTTAATTGCTAGAATGGCTGTTTTTTTAAAGTGCTC
AGTCTGGAATCGCTTCGTTGCGGGGGTTGTAGGTGCAGGAAAAATAGGGCAGAAAAAGGAA
AAGGGGGAAGCTTTGTAAGATTGGGCGCGCTTTTACCCAATCTTTATGAATACCCCT
TTTCCTTTTTTATGAACGTGTTTTCAATACCGGAAACCCCGAACGGAGTGATCCAGAC
TGAGATACGCCCCAAAAAATCAGACATTCGGGTGCGAACAGAAACCTTTACCAAAACCT
GCGACCCCAATAAAATCAGATACGGCAAGGCGATAAGCTTCAAGCCCTGAATGAGTAAA
TCAGCCCATGAGGGCTTGGCGTTTGACGAAACACCAAGTAAAGCCACGACTTCGAAAAG
TACGGCCAAAGCGTACAGCTTGTAAGAAAGATAGAAGCGTGGGCTTTCGTACATCTTAAG
TTTGAACACTATCTAGGGCAAAAAGCCCCGAATTAATAAGGTAAACCATTGTACTTAGGAA
TAGACGTTTCAAAGCTCACAATAGATTGCTGTTTGATTGTAGACGGTCAAATTTATCAAA
AGAAGTTTCAGAACACAAAGGAGGATTTGAACAATTAATAAATTGGCTACAAAGTCATA
AAGTAAACGATAAGCTCCATTGCGTGTGCGAAGCAACAGGCACATATTACGAAGCATTAG
CCGAATATCTTTTATCAAGATATACAATTACCGTAGAGAATCCACGAAAGATAAAAGGAT
ATGCGATAGCAGAACTACAACGATCAAAAACAGATACACAAGACGCAAGTTGATAGCCC
AATATTGCCAAGACCGGAAAGCACAATTAAGCATGGAACCCGCGACAAAAGAACAGA
AGCAATTACAGGAAATCGCCCGATATTTAGACTATCTGAAACAGCAACGCGCAACAGAAA
AAGCTAAACAACACGAAGCACCCTGACTATATCAATCCCATATTCAAACAACATATTCAA
ACCTGACAGCAAAATACAGATAGTCAAAAAGCAATTAAGTCCAGTTCTACAAAGACAATC
CAAGTTATAACAATCTACGCAAAAGGCTGAAAACAATAACAGGCATAGGCGAGCAAGCGA
CAGCAGTATTGCTATCAACCTATAAAAGCATGAATTTAAAAATGCAAGACAGTTACCGG
CTTATCTAGGCCCTAGACCTTAGAAAATTTCAATCAGGAACAAGCGTGAACGGAAAAAGCA
GAATATCAAAAATAGGAAGTTTCGGAATAAGGAAAAGCCTTTATATGCTGCATTTGTTG
CATATCGTTGTAATGCCTTCCCTGAATTTGTAGGGCGTCTGAAAAATAAGGGAAGCATA
TAAAATTTGATATTAATTGCCATCATGCGGAAACTGGCGGTAAAGCGTTTACGATTTTGC
AAAACGGCCAAGATTTTCAAGTGGAAAGATATAAATAAAAAATTAAGTGGGCTTTTCGCC
GGTGATTTTCAATTTATTGAAAATAAAGTATAAATTAACATCAAATCCATTCAAAACG
AAACAAACATCCCGAAAAAGTCGGGGTGCCTTCTTGCAACTTCAAGAAATGTAAAGTT
ATTTGACCGTGAATACACTATCTTTTTTCAACAAGCCACCACAGCAATCAGACAAAAG
CAACCCACCGCCACACCATGTCGGCAGTACGGCCGGACAAACACCATCCGAAGCGCGG
GGGATACCACTTCAAAGGTGCTCAGCTTATCGGCATAGGCATACAGGCAGACCCCAAC
TACAACCTGACGACTATTGGTGGAAACCGATATTAAGTACCCCAAAAGTTGGACAGTT
TAATCAAGCGGCTTTACGGGACTGAATTTCTGTACTGAACAGGCTCAGTCCCTTTAATTT
CAACTTGATTCTATCGTTGTTGTAGTAACGGATATATTCTGTCAGTACAGCTTCCAATTC
GGTAACGGAATCATATTTGACAGTATGGAACATTTCCGATTTCAACGTTCCGAAGAACT
TTCCATTGCCGCTTTTCAAGCAGTTTCCCTTGGGGACATACTCTGAACAGACCGTT
GTCTTTCAACTGCTTTTGATAAATATCATGGATATGCCGTTTCAAATCGGCATATTTGTC
TTCTGCGGATTGGAACAACCAATTGGTAATAGAAGGTGCCGCGTGGCAGTCCGACAATCAC
CAACAGCAGTTTCAACGGATGGCATTGCCTTAACCCTGCGACGAGTTGCGTTCTTTCTACC
GCATTTCTTTCCCATAGATTAAAGCATCGAGCTTTTATAGGCGAGCAATTTCCGCTTAA
GGCAAGCCAATTCGCAAGCAGTTCTTCCCTGGTTTTCAGATAGTCGGCTTTTTCGTTTC
CGGCGGATGCTGTTTTTTCACGGGCTTTCTTCTTTGGGTTTAGGGTTTGGGCTTTAAAC
CGTTAATACCATTCAAATGGTATGAGGCGCAACCATTCAGCAAGATGGAGCAGTCGGGCA
AATTCAGTTGGTCTGCGGCAGCTTTTGGGACATTCCCTACCCCGCCACCAGGCGGATTG
CCTCAAGTTTGTATTCGACCGAATATTTTGTGCTATGCTTCTACGTTTGATGCCACTCT
CTCCGTGTAATCTGTATTTTGTACCCATCTGCGTACCAATGAATCGGAAATAGAAAGAT
GGTCTGCTGTTTCCCTGCAACAAATAGTATTGAACGACGGCAAGTCGGAATTCATCTGAATAT
TTTGCCATAAAAACTGCACCCCTAAAGTCGGTAAGGTGTCAACTTTTGGGATGCAGT
TCAGAAGCGGTCTTTTTTGCCTGCCGGTTTGAATCATCTCCGTGTATATTCCCTTGA
CGAAAAAATAGTATATACGGATACCAAACTAAGGTGCTATCCGCCCTTACTCTC
CCTAAGCAAAGAGATGAACAGCGTATCGGCTCCCTGCCGTTGAATTTTCCGAAAAAAC
GCGACGTAACAGCATCAACATATATAAGAACAGCACAAATAGCATCAATACATCAGGCA
ACGAAAAATGCAGAAATATGCACCTAATGGTGTGTTGGATATCTGTTGTTTGTGCTGTTAG
TAATTTCTTTCTGTGTTTACAGTTTAGCAGTTGTACAGTTTACAGTAATGTTTAAAC
AATGACTGATTTATTTTAAATGCAGATATGTAGAGGATAAAAATGGCCAAAGTCCTTTC
AGTAACATTTTGTATTTTATAGCGAGCCTTCTCATTTTCCCGCGGAGATCGGCAATGGCA
CGGTAATTTGGCCGCGGATATGCTTAAGTTTCAAGTAACCTTACGCCACCAAAACCTTGC
TAGCTAAGGGTTAAACAGCTCACTTGAATCTACTTAAGTCTAATCTAAACTATCCAATA
TGGATAGATTTTTTAAACATAGGGCAAGCAGCAAAATTTATGTAGCTGAAAGCACATCAC
TCGCTGGTGGTCTCAACACAGTGCCTGACTTACCTCGCCGAAACACTATCAGCCGCGATAA
ACCGTGGGAAAAGCTCGTTATCAGCCGCGCACTTGGTACTATCGCGGGAACCGATGCT
GTCTGAACGCAACAGGAGAAAAATAATGAGCCGTACCTGATTACCTTTGATATGGATA
CCAATGCCTGAAAGACAATACCACGGAATAACTATACCAATGCCTACTCCGATATTA
AAACCATCTTGGCTAGACATGGATTGAGAACATTCAGGGCAGTGTTTATCTAGGCCGTG
AAGGCATCAGTGAAGCACACGGAACAATAGCCATTACGGAAGTACCGCTCGGTTTGATT
GGTTTTACTCCTGTATTTCAAACATTAAGTTTTACCGCCTTGAAGTGATTGAACGCAC
AATTTATCGCTGATGGTGTGTATCAAGCCAACAGGCTTTCTTCAAGCTGTGAACAAC
TTCGTATATCCCTAACAGAAGCTGGATTGTCTGATGAGCAAAATCAATCAGGTTCTGGAAA
AACAGAAATTTGAATTGGAAGTCTTAACCTGAAATTAATTAACCTCCTTTACTACCA
ACATCCGCGCGAGCTCTGTCAAGTTTTTGGCGCGCTGCGGCGATTCTGTGCGTTTTAGAG
CTTCGGGTAGGGTGTGAACAACTCACTCGAAATTTACTTAAGTCTAATCTAAACTATCC
AAGCAGTAATTAGTACAAAAAGGCAACCTATTTTAGGAGTTTAAATTCAGCTGCGA
TAAACCGTGGGAGAGTCTCGGCATTTCCCGCGCACTTGGTACAAACGTGGCAACCGAT
GCCGTCTGAAACCGTACAACAGGAGACAAAATAATGCTTGTCAAATCGAACTCACACCC

Appendix A

-409-

TGCCAGCTAATGGTTTACGTAACCTAAGGTTACTGGATTTACGCACTAAGGTTACTGAAC
TTAAGCATATCGCGGGCCAAAGTACCGCTGCCATTGCCGATCTCGCTGGGGAAATGAGAA
GGCTCGCTAAAAAATCAAAAATGTTACTGAAAGGACTTTGGCCATTTTATCCTCTACAA
TATCTGCATTTTAAATAAATCAGTCATTGTTTAAACATTACTATAAACTGTACAACCTGC
TAAACTGTAACACAGAAAGAAGATTACTAACAGCACAAAACAACAGATATCCAAACAC
CATTAAGTGCATATTCTGCATTTTCGTTGCCTGATGTATTGATGCTATTTGTGCTGTTT
TTATATATGTTGATGCTGTTACGTCGCGTTTTTTTCGGAAAATTCACCGGCAGGGAGTC
GATACGCTGTTTCATCTCTTTGCTTAGGGAGAGTAGGGGGGGCGGATACGACCTTAGTT
TTGGTATCCGTAATATCATCATTTTTCGTCAGGGAGTATATCGACTCTAGAAGATAG
GTATTAGATACTGCCTTTTCTTACAAGAGTGTGGTAGGATGTTTCTTCAAGTCAATC
AAACAGGAAAGTATTTCTTTCTGCTGAAGATTGAAAAAGGACTGGATGTTTCAACAAG
GTTAAAACTGGGGAAAAAGATGGATATGGTTCAGATGAAATGCTGAGCGTACCCCGTGT
TATTTGGAAATGATGTCGCGGAAAACGGGAGTCCCTACTCCAGTATTCTTTAAATCTA
AGCAGAAGACTTTCTCGTCGGTCTTTTTTGTGTTGTTGGTTGTCATGGAGTAAAACGT
CAACTGTTGAAGCATAAAACAGCAAGAAGTAAAAAGAAAGCAGTTCTTTGGATT
TTAGATATTACCGCAATTAGTTTCTTTCTTCAAAATTTGTTTAAATATTGCAATATTA
ATATAACAGAGATTAATGATGAGAAATCAAAAAGGCATAATGAATATATTTGTACAA
AATATTTGCAGTATTTAAAAATGTTGGTTCGTATATGAAAAGTAAAAATGCCAAAATGT
ACAGTTGCTAAACTGTAAACTGCTAAAGCAACAAAACATAAAAGGAATGCAAGGATGC
GATCACTACATCTTTTTATTCCGAAGCGTTTATGATTTTACGGTCAACTGCTACTCTATG
TGCTTAGCTTTTTCAGCTCCCTATTTCGAATATTGGAGGAGGCATTTCATCAGTGTGCT
AATGCCGACCAAACTCTCACAAACCATATGGTTCCTGTGGCAGCAACACCTATCCGTT
TGTTCAAGCGACCAAGAGTAACATGATTGGCTGGTAGCATTGGCTTTAATCTCTTCGA
TATGAATCCATTTTTCAGCTGCACCTTCTTTCAGCATATGCAGCAGTAGGGATGAGGCAA
CTATCTTCTGGTGGAGTTTGTGACTTTAATCTGTATGCAGTGTAGGTTGAGCAGATTCA
ATTTTTTGATACAGATTATCCGGCTTTGTTCCGGCAATCTGTTTGCGAACGTATAGTAGA
GCTGTCGCTTTGCAGCTTTCAATTTGCGGTAGGTATTTTACCATTCAATGCGTAGCCGCT
CGGTACGTTTGAGCCAAATGTTATCTTCGCCATTGTACCAATTTGTTTTTACATTAGGC
TGTGTTTTAGTAATCTATTGATTTCAATTATTTGCAAGGGAAAAGACAATTATTTCCGG
TTAGGAATAAACCTATCTCTGTTGAATACCTTAAAGCCAAATACGCCATCAACACCATAT
TAAACACAGCTTTTCTTAAATATAGTAGACACAATCTTTCCCTATTATGAAGGTGATCG
TTTCTTTTCAGATTTCGATTTTAAATGCTTTCTATTCTATAAAAATTGACTAGAATAGCTC
AATTATAAAAAATTGCGCGATTTTGGTATTTATCATGAAAATTTCCAGACCTCCGGAATT
TACCCTGTTGCAACAGGAATATATGCAGCATCTCACTGAAAGAATGACGCAATTGCCAA
GCTGCTGAATTTCTTCGCAAAACATCCTGATATAGACATTTCCGATTTTCTTACTGAAAT
CAAAGATTATTCAGAATTTTCCGTGACAGATGAAAATGGAACCTACCTGCATTTGGGACAA
ATTCCGCGCGATTACACCGGAAGATACGCGGATGAAATGGCGCGCGGTTAAGGAAAGCCG
CAAAAAAATCAAAAACCAATGTTATTTCCCGTTTGAACATCAGTTTGGTTCTGCATTCC
CGACTCTTTCAGGCGACGGCTTCATTTGATTGACAAAAGCTGCGGCAGTTCTATCGGCAC
GTCTAGCTTTGGGTGGCTTCGGCAGAAGCGAGCAAAACAGATTCTTGCTCAAGTCTCTGAT
TATGAAGAAGCGATTACATCCGCCAACTGGAAGGTGCGGCTACCACGCGTAAAGTGGC
CAAGGATATGCTCAAATCGCAGCGTAAACCCAAAACAAAAGACGAAATCATGATAGTGAA
CAACTATCACTTGATGAAAAAAGCGGTAGAATTGAAAAATACGCCGTTAAGTGTGAAAT
GATTTTGGATTTCACCGCATTGCTACCACTAACGCTATTGAAAACAAGCCGAGCCCGG
ACAATTACGGCAGGATGACGAAATCTTTATCGCCGATATCAATGGTAACAGCTGTATCA
ACCACCGCCGACGGACAGGTTTATACGCTGATGGAAGAGGTGTGTGCGTTTGCCAAATA
TACCTATGACGGCGTGGAAAATCCGTTTATCCATCCGGTTGTCCAAGCTATTATCTTGCA
TTTCTCATCGGCTACATCCACCATTTTGGTGATGGCAACGGGCGGACAGCGCGGGCTTT
GTTCTATTGGTTTATGCTCAAAAACGGCTACTGGCTATTTGAATACATATCCATCAGCCG
TCTTCTGAAAAACGCTCTGCCCCAATACGCCAAATCCTATTGTATGCGGAAACTGACGA
TTTAGATTTAACCTATTTCATCTATTACCAATGCGATATTATCAAGCGGGCGGTTGCCGA
TTTGGAGCACTACATTTCCGACAAAACAAAACACCAACAGGAATTCAAAGCAGCGATTGC
CCAATATACTGAAAAGATAGGAAAGTTGAACCAACGGCAAATTGGTATCCTGCAAAAAGC
AGTGAAGAAGACGGAAAAATCTTACTGCACAAGAAATTGCCAACCAATACGGCATCTC
CCTGAATACTGCCGCTAGCGATTGAGTAAACTGGGAGAATATAGATTCTAGTGCCGTT
CAAATCAGGAAATGCTTTAGAGTATGTTGCTCCTCAGGATTTATTGGAAGGTTAGAAAA
AAAATAGTTTGTAGCCAGAAATGACAGCTTTAACCGAGTCAAAATCAATACAGTCCGCAC
CTTCAAAAAGAAGCTGCGGACTGCTTGTCTTTTGTCTACAAATGATCTTTGTAGCTGAT
TTAACCAGATTGTAGCAATTTTGTCTTCCAAGCAAGCAGGGTTAGAAAATTCGATACTT
TTAATTATTGGCTGTGTTTAAATATGATGTTGATAGGCGTGTGTTGGCTTTAAGGTATTCA
ACAGGATAGGTTTATTCCTAACCGGAAAAAATATGTCTTTTCCCTTGCAAGTAATTGAAA
TCAACAGATTACTAAAACACAGCCCTTACATTTATGGGGTGACTACTCTGTAATAATATGTC
CTAAAACGTGGAACACCTTTTGTCTGTGTAATTTAAGGAATCTTATGTTACATATA
CCCCCACCAGAACCTGTTGATATGTTAGCAGTATTGTAGCCTTAAACGTGCATAGTCC
TAACGGTACAGGCGACTGGCATAGTGCAAAGGCATTGAGTGATCGGGCTTACCCTGAAAA
ATTTTATATTTACGGTGAAAAATCAAGAGCGAAATACCAATCATTATTTGGTGATAATGG
CATTATTGATGGGACGGATCGACTGAACAAAATGGGTATTTCCTGAAAACATCCCAGT
TTGGCTCGCAGATCACCCCGTGTGCTGGGATTATCTTTACACAGCAGTGTACAAAC
TGGCTCAATCGGTGCGGTGATTTTAGATGATTGGTTTCCAAGCGATGAAGACAAGCAATC
AGTTTATGACTTACTTAACCAAAATCGAACCGCACTTGAATACTCAAGAATGGGAGAATTT
ACAGCTATGGAACGCAAAAACCAATAATGTAATGCTAACCGAACGAGATAAAAGGCAC
GAGAAGCCGATTAATCTGAATTTTATCCGCAATACGCCATGTACAATTAATCAGCAGATG
TGTCTAAACGTACCGCTGTTCCTGTTTGAAGAATTTTTCATGATGAAGTCTATCCTCAC
CGTATCCGGAATCGTATCGGTAAACCCAGAATCACCTATTGGATGTTTGGGCAACGA
TGAAAGAATCGGTACTTTTGAAAAGGGGGCCATGTATCGGTTCCGATACGACAATCCCAA

Appendix A

-410-

TTCTTCGTTGCTGGGCCTGCATTATCAAGACAGAAGCAAGGTATATATCAGCAACAATAT
GCCGCATATCTTTGCACAGTATTTTCCGGAAGGCTTTTGGATGCACACATCACAAGCAA
ATATGCTTTTCATGATGCGCCTTTTGAAGACAATGAGATGCTGCGCTTGGCAATTCTGTG
CAGAGAGACTTTTGGGTCCGGATACATGTGCGCTGTAAATGACCCGCTTTTAAATGAATGGAT
TGACGGGTTGGAGATGAAAAATCCAAGAATATTGACTGAACGGGATTTGCTGGGCATAAA
TGCCCGACAGGTTTTTCAGCAATATATGGCAGAAATCTTCCATCACGGCCGTTTCGTCAG
TGTATCCGGGATACAGCAGAAGATGTCTTAGATGCCATCCGAGAAATACCAAGCAAAC
TGCCCTCATATATTGCCAAAGGTTTTGATGCATCCGAATATCCTTGCCTGGCTGCCAATGA
ATTTTTATGCATGCAGACCATCAAACAAGCCGGCATTTGCCGTTGCACAGACCAGCCTGTC
GGAAGATTTCATCAGTCTTATTGGTACGTCGGTTTTGATGTCAGTGAACAGGGTTATTTTT
AGGGATGGAAGACTTTACAGTCTGCGCCAGTATTCGGTAGAAGATAAATAAAGGCAG
TTATGCGGCTATTGCACAGATTATCCGACAGATATCCGGCAGACCAGATGAAGATTTAAT
CCATTTCTTTAATCAGCTTGCTGCCAGTTGCATATTGAAAAACGGCGATGCACACCTCAA
AAATTTTTTCAGTACTCTTATTCATGACGAATACGATGTTTCGCTTGCACCTGTCTATGATGT
ATTGGATACATCAATATACAGGGTTGGAACACAAGGAATTTTTGATGCTTATGACGATAC
GCTGGCATTTAAACCTGACTAACCCAGGTAAGAAAAACATATCCTTCCAAGAATACATTGTT
GGATTTTGCTGAGAAATATTGCGATTTGGGAAGAGAAGATGCATCCTTTATGATAGATAC
AATCGTTCAAGCTAAAGAACAGGTTCTTGTAAATACTCGGATGTATTGCGTGAGAATGA
ATGGTTGGCGCAGAAGTGGCATTATATCCCGGATGAAAAAGAAAGGCTTACCGTTTAC
ATTCGGTAGCTGCCGCTGTGAGAGATGGCCGCTACTTTCACCTGAAAAACACTTCA
TCTTATGGTGTTTGAAACCGAGAAATAGAAGAATCGTATTCGGTAGGAGATATACTGGG
AAGATTGGAAGCTGGTAAATCACTCTATTGATTGAGTTGGCGGCCATATGTTTAAATGT
AGGCAACGAGAAGGAATCATGTATTTTCATGATTCCCTTCTTAAATTCCTGTGTCAATCTA
ATATCAAAACACAGCACTATCTCTTACCATAATCATGATAGGTGTTTTATTATGAAAAGCTA
TATCTATAGTTACCGTTGATTGACTATGCCGTTTTTAAACGTATAGCCTACCTGAAAAC
CGCTTGCCCATTTCCCTGATTGGAATAATTCGGGCTTTTCAATGCGCGCCGGTAAATA
TATCGTAATGCAAGTTGCCGCCAAGCTTTATCTGCCCGGTATCCCAATTGCTGTGCCGA
CTAGAGTTTGGCCCGATTAACCATTTGGCGGATTGTCTGAAACATGTCTACATCAGCCC
CAAGATAAAGCTGATGGCTGGTTAAATTGCCAGCTCAAAATCGTTGCGCCAATACCATC
CCCGCTCGGCAGACAACTCATTTACCGTCAAGCCACGTACGGTGTGGTGTCCGCCGA
TAGCCAGTTTGTCTTGGATGTTAGCGGGGTTTTGTTCCATTGTGCATGAACGGATGTGT
CATAGGCAAATAGCTGTTTACCGATTGAAAAGGAGTATTACATCAGCCGATGCCGTCC
AAATTTTCATAGCTGACGTGCCTTCGCCAAAGGCTTCTTCAAGGCGCGCAGAGCATCTT
TCATGCCGTGCGCGTTTATATTCAACTTAAATCTGCCGTACTGCGACCGATATATT
CTTTGTGGGAAAGTTCTGCCAACCAACCCGAGTTTTACGCCGTTGTACAGTCAGTTCGG
CATCATCAATGTAACTTTTTGTTCCTCATCCAGTTTTACACCGAGATAGGTTTTTGC
GTTTGGCATCACGATACAACAGGCGGTTGAAGCCGAAATCAGTATTGTAACTTTTTCCAT
TATAGTCATAGACTTCCGATATATCCGGAACCTGCCTGATGGTAACGGTAGCCATTGTGAT
TGAATGCCCATGTCCATTTACCGAAAGGGCTGAATAATGTACGGCGTAATTGTTTGATC
CGCCTTCTTTGCGATGGCCGTCAAACCTTCCCTCATCGGGCGTACCGCCAATCGAACGTC
CATAAATTCAGTACAGACATATCACTCAGTCCCAAGGATTGTGCGCAGAGAAAGTGATAT
TTCCTTGGTATTTTCTGTGCGCTCACTACCCGAATTATCCATCCCCACACTCACACGGT
AGGGCAGCAGAGCTTGCCGCCATTGCACCACGACATCACTTTGGTTTGGTTCTCCCTCTA
CGGGAACGATTGGAGATCGGCTTCCGCGAGTGGGAGACGTTGAGATTTTCCAGTCCCT
GTTCCAAATCAGCGAGATTCAACAGATCGTTGAGCGGGTGGGAAATTTGTTCTGGAATG
CTGCAATACGTCCTGCATGGGTTTGATCATCGTTAGACCGATCGATTGCTATGGAGCGCA
GATAGCTCGGTATCAGGGTTAATTGAAGCTTGCCACTATTCAAATCCTGTGGCGCAGCCA
AGATACGGGTCTGGTATATCCCTGCCGATCAAAGCATTTTGTGCTAAGGACATGATTT
GATTAATGTTGCCCCGATGCAGACACTTGCCAGCCTGAAAACCCGTTTCGCGCAAGGCAC
GTTTTAGGGCAAACCTGAAACCGAGCATGGTGTTCGCTTCCAACACCACCTTCGTTAATGG
CAAACACGGTTGGCTGCTCATCGCCCATCACTGATTAAACGTTTCCCCCGTGTGTTT
TTTGATGCAAAAGCAGCATCGCTTTACAGGCTGCATGGTTTGGCGCAACTGCTCTCGCGTT
GGCGTTGCTGAATATCTTGTGCTACGATTTTCGGCAGGTTGGGGGAGGCCAACAAAG
TAGCAGGAGCAATGATACCTGCCAATAAGCAGCACCAAGACAAAAGCGAATATTAGGCA
AATAGGATAAAGGAAGTTTCATGGCATGGTCGCAAAATCAATAAATCATCAATGGGCAT
TCAATACAGGATTGCATCAAGTTTTAAAGTTAAATTTCTCAAACCCTTATCGCTCCCTT
TATGATACAAGGCGCTACTGTGCTACTAGGAAATAACTGGCGCACAGCTGAGCGCATTT
GATGACTGTGTCCCAATGGCGCAACCATGAATCAGCCAAATATTGTGCGCACAGTTCC
AATCGCTGTTGTACGCAAAATGGCGGTGAGATTCTAAATAATGCGCCTGCGCCACTTCAT
CAAAATAAGCCCATGAGATATAACCGATTGGTTGGGTACCTTGCAAAACAAAGCGAACT
GCCGTTTTTTTAAACACAGGCAATATACGTCATCATCTCCACAATAGGTACTTGGCGAT
GCGTAGGCGACTGATACCATAGCCAAGTATGGCACCAGTGTCTCGCTTTCGTTTCATT
GTTCAATTGGGGTAGAGTTTAGGAGAGATGATGTTAAGGGTGGAGTGATGGGCATATTTT
AAGTTAGGGTTTCGTTGGTTAAACAAAAAATGGTTTCAGCCTGAAATGAAATATTTCA
CGTTAAACATAGTTTTTATGACACATGAGACTGAACGTGCGTGGGCAACGAGTTGCCACCT
ACCATGTAACAGTTTCGATTAATTGCACAGGCTACGCTGGTTATTGCACAAACAAATGAC
CATACTGCTTATCTTTACGAATATTGTATCCACCGCCATGGTGAATACACTGATAAGAAA
CTAATTCATGCAAAACAAAGGTGAGATTTTCAGTTTACATGTGTCAACGGCTTTCTCCC
AGCGTGGATTAGTTTGGAGCAATTCAGTCTGCACAACACCCCAAAAGGGCAAGCTG
TTAGCATTTGTTGAGCAGATGATATTAGCACTAAATTAGAAAGGGTTTTCTTCATATCTC
TCTCCTTATAAGATTATGTGTGTTTACAACATAATTAGGATTTTTTAACTGACTGATAGTA
AATATCCATTACTGTTTTGTTTTGTACTTTTCTTCATCATCTCAAATAGATATTCAG
TTTTACTAATGCCTTATCAAGGAATTCATAATTCTTGGTGTCTTATCAGTAGTTGT
CCAGTTACTACTAGTACCGTACAAGGCTGTACCGACTACGACAGTACCTAATAAGGTAGT

Appendix A

-411-

AGCGCAAGCTGTTAGACAAAAACAGATGAAAGAAACAGAGAATATTTAGAAAAGCTTCTT
TTTCATATTTTTTATTATCTTTTGTGGTTTGGTTCTACCAAGTATGGGTTTAGATTGT
TAATTGGCTTACCTTGGCGTCATATCACTTACCCCATATTTTACATAGTCATCAA
ATTCTTTTGTACCTGCTTTTGGCACCTCCGCAAAATAACTGCTATGCGAATAGCACAAACC
CCTTACATGTACCTTGTGGTGTCTTGGTTCCTAGCAAGAAAGGTATCCATTTGTTC
CCACAAAATCTTTATCATGCACGATTGAGTAGGATCCGCTGTTATAAGTTTGGCGTCTG
CACCCGTATAGGTATAGCCGTTTTTCTGTAAAACATCGGCGTAATCATTCTGCACATTG
TGGCTGTACCATAGAAACGTGCTTTTCTGATTGGGGCAATGCCATTTGTTTTGATTGT
TTACCCAATCTTTTAAGGAAACGCTTGTGTAATCCCCCAGACTGTGATTACTGGTAT
CAACCGACCGCGTTACCCATTTTGAACCTCTCGATAAATATCTTGATTCAAGTTTTT
CTGAATTGGTTTTGGGTAAATAGCCTTGGAACTTTATTATTTAATTGGTCGTAACCGA
CATACATCAGTTTCAAGAAACAGACTTGAACCGAGCCATAAAAAATCTTTATTTTGTAT
TAGAATCAGATTTATATTTCCCTGTGGAGGATTGACTGCAATAACACCACTACCGT
TTGTACTATTACGATTTTGTGGTGTGCTTAATGAATCTTCTCGATTATTGAAAA
TACCAGGATTAGACACAGTAATAACTTTGCCATTTGTGTCTGAATGCTTGCAGTTCTT
CCTTGTCTAAATCATTCAATGACCAAAATTTGTCTGGTATCAAAGGATACCTTACCTGTTT
TTTCATCTATTATCTTCTTATGGAACACATTTCTTTAGGTGCAAGTGCAGACCTTACCG
CTCTATCGGCTTGGGTGTGGCAACATACTCCAAGCCATATCAGAACTCCCTGCTCCCC
AAACGAGTCTTAATCTGTAATCTTAGGCGGTAATGACGAAGGATAGTTTACAAAAAGTTT
CGGCCTACAATTTTCAAGTTTATAATAATAAAAAATATCCATCAAAAAAATGTGATTTTC
TTTTTTTAAAGTTGCATCTTGCCATTCTTGAATCACATTCGTAATATCAACATTTTT
CAAATCTGAATCAATAGATATTGAGGTAAACATTTCCCTTCTTATCTAGTTCTATTAA
TTCTCTAAAAATCTTACTTTTATGATAAAAAACAATTTTGGAAATCTGAATTGAT
TATATACAGTTTATACATTTCCCAATTAATTTCTTATATCACTAATTAAGAATTTCTT
TTTATTATAATTAACCTTATTTTCTTATTACATCTTTTCAAAATATAAGAAAAATAAC
AATAGTGATTAATAAGAAAAATATATAAGTATATTTTATTCATCTTTATCTTCTCCA
TTGTCTGGCTGAATTTTGTGCTGATTGTTTTCTCTCTGCTGAATTTTAAATCCGGC
ACCAGTATTATCTAAGTGAATCAATATATTGCTTGTATTCTGGTAATCTTTTTCAGATAA
TCTTTTTCTTACAACATCATAATTTCCATTACTGTTTCTTCTGCTGATAAAAAACCAT
ATTTTTATAAGTTTCCAGAATTAATCCAATACTCTTTTGTGTTAACCTATTGGTATT
TAATGCTATTTTCTCTTCTTATTTCTGTTATTTAGTTGATCAATCTTTCATCTGCTTATC
TAATGAAAGATTACGCTCTTATAGAATAATTAATTTTTTCCCACTTTCATGACTATTCC
TACTTTAACAGCAATATCTTTGCCAAATCTCGTGTGATGGTTGCTTGCCATAAACGCTG
CCTGAATGCAATCTCCCACTCCACCTTACCACCAAAATCACTATTAGGAAATAAATTTAA
TTGAAAAGTTGAAGCAATTTGTAATATTAGGCTCTAATGTAGAGCCAGGATCTTTATG
TACAGATCCAATTTGCAATAGCAATTTAGGGTGCCTAAGAGCAAAATTCATTGCTCTAC
AGTATCAATTTTCTCCACCGCTTGGCGATTGAGGCTGCCTTGGCGTGCATCTGTGTC
GCTGTTGCCGACTGCCGACCCGCTAGCCGTACCCAATACATTTGTAATCGCTGTTACAGT
CTCTTTCTCTTCCGCGCTTAAGTCTGCTTCTTTTCTTGGCGTATAACCATTTGCTGAT
GTAAGGCGCAGCGCTTCCGACCCGCGCCGCACTCAATGCTCCTGCTAGAGCATTGTTGTC
TCTTACTGCGGCAACCGCTGCTCCTAATACCGCGTGGGCAAGACGTTGTCGCGTTTCTTG
ACTGGCGGTTAGTTTACCATTGCGGTTTTGACCGGCTAAATCTTTAAAGTGTGTCCAAT
CGCATACGATACCGCTGGCGATGCGGTAGCCGACGCGATGCCGCTCCGCTTTGGGTGCG
CGCAGCTAAACCTGAGGCTAACATGTTGAGAATGACTTTGCTTGTGCAATATCTGTC
TTTTGCTGCCGCTCTTGAAGTTCATGGGCTTTGCGTTTGGCAGTTTCCATATCGCCATT
GGCTAATGCTCCTGCTGCTGTTTCCGCTGCTTCTTGTCTGCTTTGAGTTTGTCTAA
ATGTTGGTTAATCTCGGTATTGGCTTGTGAACATTTTACTAAATCTTGGCTGACGGT
TCTTTGTAAATCCAGTTCACTTTGCACCGCTTCTTTGTTGAAGGTGTTCTTCAAGCTGCC
CGAATGCTGTTCCGCGGTGCTGTGGTTACGTTTGTATCAATATCGGCTTTGGTTTGTGTC
CGCTGTTTTGCTGTGACCGGATTTGTGCGGCTTCTGCTGCTGATTGAATGTTGCGGGT
GTTGATGCGGCTTTTGTGATGCTGCTTTGACTGTCGCTGTGCTGCCATAACCCACTGA
TGAATTTGCGCTGTTTTATCGGCTACGCTTGTGAGGTGTTTGTGTTGAGGTTTATTTG
TGCGCCCTGTCCAGTGTTTTGGCGCTTATGGACGCACTTGGCGCCAAATCCAAAATTTT
GCCTTTGATTTGGCTGTGGTTTTTGTGATGTCGCTATGGGTGAGGTTGGCCGCTCTGAAAGCG
GTTTTTACCCTTGTCTTCTGCGCTTTGGGTACTGGTGATGATGCCGCTTTGAGGTCTGT
ATGGTTTCCGACCTTGATTGATAGCCGCTTCTCCGGCATAAATACCGCTTTGCTCGGT
TACTGAAACATGGTCCGCTCGGATTTTGTCTTGGCTGTAATCGCCACCGGCACTGAAGCC
ATAACCTACGGTAACCTTGTGCACTGGCGTTTTGTTGTTTGTCTTTGATAGGTTTCTCTATC
TTGTACGCTTTGAATACTTAGGTTTTTGGCATTGACTTGTACGCCCTTTGCCGCGTACTTG
CGCGCTTTGATGGTAGTGTGCCACCGCTTTGGATAAGGTTTGGCTGCCCTTTGTGCGC
GATATGGCTATGGCGGTGGGTGATGCTGTGCGCATTTGCCGTAGCCTTTGCCGACATTGCC
GCCTGCGGTAACGCTAATGACCAGCCTCCTTGTCCGAATGATACGGCAGCACCTGCGTT
CCAGCCTGCCGATTTGTTTTGGCCGCGTTCCGATTTGCTTTGCTCGGCTGATTGGAGTGT
GATGTCGTTATCGGCAATCAGGATTGTGCTGCTTTGCCGGCAACATCTGAGCCTGCGAT
GTTGATATTGGATTGTTTCTGCTGCGCTTGGCGATTAATGTGGTTTTACCACTGCTTG
AATTTGACTCGCTTGGGCTTGATTGGCTTGAACCTTGGGTGGTTTGTGCGTTTGTCTGTT
GCCGTAGGTTATGGAGATGCTGACTTGTTTGGCATTGGTTGTACCATTTGGCTAAGTTTTG
TGCATCTTACCTGTTTGTGATAGGCTTGGCAGCCTGCATTGGCAGCGCCATGGCATTAAC
GCGGTGCTTTTTGCTTTGTCCGACTTGTGCTGCTTTGTGCTACGGCAATCGCTTGTG
TGCCAAATCGGTAAACGGGCAACTGAATGCCACCGTTAGGCCTTTTTGTTCATAGGTTT
GGTGGTATTACTGTTTAAATTTGTGTGTCGCGCTTGAATGTCTATGCTTTGGGCATAGAT
GGTATTGTTGCTTTCCGGCTGGAAACGGTACTGCCGATTTGTTCTGATGTTTGGCTGTC
AACAATGGTGGTATCGCTTTCAAGCTGCCCTACGGTACTGCTGTATGTTGCTTGTGCTT
GGATTGGTTTTCTGTGTGTTTGTCTGCTGCCAATAGTGAAGCCGATACCTGCACTCAT
CAATCCTGATTTCTGGGTTGATGATAGGTTTCCGCTTTGGCTTTGAGTTTGGGTTGTACC

Appendix A

-412-

AATGCGAACATGATTGCCTGCTTGAATCTGGGTGCCATTATCGGAAATAACATTGCTGCC
AAGGATGTTGGCATCGTTTCCCTGCCTGCAATACAACCTTGCTTGCCTTCAAAGGTGCTGCT
TTGGGCGGTTTTCGTGATGACTTTGGGCTTATCGGTAATGACTAATTTATTGCCACCACC
GCTTCTGCCTGTGTGTTTGGACGCATCATCAACATGGGTCGTGTTGATGCCTGCGCTGAT
GTTGATGTCATTTTGGCAGACACAGCGAGTGACCGTTTGCCTGCTGACTTCGGCAGC
TTTGGCATTGAGGTTATCCCTGACAATAGGGTAACATCGCCTTTTGTGTTGAATGCTGCT
GCCGACTTCGTTTCGTTGAACCGCAATAACATGGTTATCGGCATCAAATGGGTTGCTTG
ATGTTTGTGCTGGTTGTACCGTATCTAGGTTAATGTCGCGCCCTGCTTGCAGCCGGGTTG
CCCTTGCTCTGATTGATTGCTGATTTGACCGGCAATGATGTTGATGCTTTTCCCTGCCTG
CGCTGCTAAAACACCTTTTCTTTGCTGTGATATAAATACCTGCCATTCCGGTCTAGGTA
GGTGCTGCTGCCTTGTGTATTTTGAAGTGTGGCGGTGGTGTGCTTTGGCTGTTGATGTTGTT
GCCTGCTTGGAGCAATAATGTCTGTTTCGGCAGAAAGCATGCCGCCAATATTATTGATGTC
TTGTGTGGCCGTACCGCTGATTTTTCGCGATGAATACGCCACCAGATATTGTCTAGCGT
ATCGGTATTGATAATAAGCGCATTTGCCCTGCAATCGTGCCTGAGTTTTTCAGGCTGCC
TGAAACATTGATTGTGTATTGCTGCCTGACAACATGCACCTTTACCGCTATGTGCGC
ATTTTAAACCGCTACATAAACCTGTGGCACCATAACGGTTGTGTGCCGCCATCAGGAAG
CTTAACCTTCTTTTGTGTAACCAACCAATATCGCTGGTCAAGTTGCGCTACTTGCTCGGC
ACTTAATGCAATGCCAACGCTGAGATTTCATCGAACGTGCCGCGAGTGCGCCATTATCCAT
TAAGGCTTTAAATTTGTTCTTCGTGCTTTTGATAACCGCTCTAAACGACGATGCCCTGTGAG
CTCTGCGATTGTGTTGATTGATTAAACGTTGCTCGTAATAACCATCACCCAAACGTTTATG
TAAATTGTTTGGGCTAGTTTGAAGCTGTCCAGCATATAGTCACTACCCAACCATTTGACG
GTAGTTGGCAAAAGCGTGGATCGGTTTCAACAAGTAGCCTTTATTGACAGGATTGATAAT
GTATAAGCTGCTGCTGGGTAATGGGGTAAAGAATTGGACGTATAGGGTAGCGAAATACC
GTGCTTTGGCGCAACTCAGTGCTTGGCTGGGCGCATGATGGCTTAATGCTTTGCGATG
CGATTTCATAGGCAATGAACCCAGTGAATGTTGCGTGTGATTTCTCCGGCAAAGTGTA
ATTTTGTTCGCTATGTCCCGTTGAGTCTCGTCTTTATGTTTCTCAGGCCAATAGCTGTG
TAATTTGCCATTTTCTCAGTGAATACTTTCTTTTCGCCAAAGGTTTGTCTGTTATGCAAC
GTCTTTTCTGTTGTACAATGAGATTGCCACCAGCAATGATTGGCTATCGGTATTAAA
TACTTCTTTACCATCAATGGTTAAATCATTACCTGAAATGATTTTGGCTGGCGCAGTTT
GGTAACCTGGGTTTGGGTGACTTTTTCATAATCGTATTATGCCAATTTTCATGCGC
CGCTCCATCAGGGGTGCGTAAGTGGTCTGATTTCATCGTTATAGACAGACCAGCCTAATTC
ATGTTGCGGTGCCCTCTCGCAATAATTCGTGTCGTCCAAATGCTTCGTAATCAACAATATG
CTCGCGCCCTGTTTCTACCACTGCGGTTTCAAATGCTCATTGGTATTGTGCGAGCTTTTC
TACACCTAAACGATTTTGCCTGACGCTTCAATGGTTGCGCGCGCATTTGTGTATCCTTTG
GGCTTTGCTGTGGCTTGGCCATTGGTATCTAATGCGCCGCCAACCGCCATATCGTTACC
GCTGTAATCAGACTGTTTTCACGGTTGTTAATGTCCGATGCCTAAATTCAGGTTTTC
ACGTGCGCAATGGCGGCACCTGTACCGTTTTCATCTTGATTGTCTAAGCGGGTAGCCGC
AATAGCGGATATTGTGCCATAAATCCGACCTGTACCGATATTATTCATTGCGCCGGCTTG
GATTTTGGTTTGTGTCCGTCAATCAAGCCTCTATTGGTTAAATTTGTGCTGCGTGCCAAT
GTCTGTGCTACCGCCGATTGAATGTTGCCTTGTGCTGCATTATCAAGGTTATTGCTTT
AATCCGAATGCGATTGCTTTCCTGCTTGCAGTATGTGAATTTTCAGGCTGCCTCGTGACT
GAGCGACAATTCATTGCCCGCCACGATATTGCGTTCTACATAAAAAATCATCTGTAAACGC
AATATCCAGTTTATTATCAGCGGCAAGTGTGCCGTTGTTGGATAACGATTTTGCCTGAAT
AGCAACATCAGCGGCTGATTGTATCGTGCCATTCTGATTATCAATGACAGCGGTAGATTG
CTGACCATCGTGAATAATCAGTTGTTGATTGGTCTGCTATTTCCGCCATTTTGATTGTTT
GCTGCCTGAAACGGCTAAATCCGCTATTCTGCTGATAATAACTTGCCATGAGCGTTATC
CAGTTGATCGGTTTCAATCTCTAAGTGTGGCGTGTGTTGATGTTGCCATTTTGATTATT
CAGGCTGCGCGCTGTAATGTGGACCGCATCACTGATAATTTGTTCCATTGTGATTGTCAAA
CGCCGAACCTTTTGCATTTAACTGATGAATGTCTATTTGTCTGCTGATTTTAAACCTTG
TTGCGCACTAACATCTGTTTGACCATTTGGCAATAAATGCTGCTGAATATCCAGTGCACC
ATGAGTGCGAATGTCCTGATTGTATCGTGCCATTCTGATTATCAATGACAGCGGTAGATTG
TGCACTACCGGTACCTGTTGCCGTTGTTGGTGTGGTAGTGGATGAATGGAAGATGCATT
GTAACATTGCGCGTTGATTGCTTGAACCATTTGACGCGGTTGGTGGCGGTATCTGTAA
ACCATGCGGCCACGGTTATCCATTTTGCCTTGTGCATCAATATGGAGTTTGTGTAACC
TGTTTGAGAGGATTGCTTGTATTATTAAGTGTGTCGGTATCAATAGCCAAACGAGCGGC
TTCAATGGTGCTGATGTTTCATTTTTCAGGCTGCCGAATGTGAATCAATATTTCCGCC
TGAGGACAATAATGTGCCAGTGTGTTGAATCGACTGACTGTGAATTTGAGTGCCTTGTG
CGATACCGCGCTACCGCTGTTTTCACCGCCCTGACTGCGGATATTGACTTTGTGTTCCGC
TGTATTATCCGTATCTTTTCGATTGGCGGCAGCCATCGTGCCACTATTGACTAAACGGCC
ATTTGCTCAATCGCCACATTACCGGAAGAGCAAAACCTGCCCTGATTACGAATGCC
TGCTTGTCTCGGCTGATGATTGATGATGATGATGATGATGATGATGATGATGATGATGAT
TGTATCAATCGCAATAAAGGGATATGTGTGCCGTTGTTGGCTGTATTGTTGACGTATT
GGCAGCAGCATTATTGAGAAATAGGCGAATGTGCATTACCTGTTGCGACCACATCGTTT
TCCCGCAGCAGACGAACATCTTGTCCCCATACGGGTGCATCAATTTGGAATGATAACT
GAGAATACGTGTGAATCCGTTATCAGGGCATCCAAACCGTTCGCGCGGATTACAACATT
GCCTTGCCTTATCTTAAAGCCGCTAAGGTCTCTGCTTGTATTGCGGTTGGCCTGTGCT
CAAAGTGGCAGCGGAAGCATTGATAAAACCAACCATTTGACTGCAATCCCTGCCGGATT
GGCAATAACGACTTCTGACAGCTGCTCGGCCACTTCAATATAGCCATTCAATTGTGAAGA
ATGGCTGCTGTTGATTGTTTACAAACACACGTGCTTCGCCCCCTTGCCAACCAAGGATT
ACCTTGAATCCAACCGCTAGCTGTGTTGGGTGTTGCTGCGGCTGTTGTTTAAATCGC
CCCGGATTACCCACATCAACTGGGCGTATTGATTAAACAGAAACCCCTGCCGAAGTAGG
GGTTTGAATATTCGACTTGGGTTGCGGTTACCTGTTTGCAGAAATCGTGGCTGTTGAGT
TTTAGGAGCAGCTTTATCAGCAATAATGCCATCAGCAAAAGCAATATTGGCCGTACCTAC
AGCCAAACATAAAGAAAAGCCCAATAAAGAAAAGAAAAGATATTTGAACGACAAACAGG
TGCATGAGTAGTACCAAAAGGAACAGATTTACATGAGCGCTGCCTGAATCACTATCGGC

Appendix A

-413-

ACAGCTTTTACCTTCGCGCTTGGTAGTTTCAGCAACGGCTACACAGCCCCACGTTTTCGG
GTTGAAAATTACACGATAGAGAGTTTATTCATGATTTTCAGTTATTTGATTTTATAGAG
TTATTAGAAAAAATTGGATAGTCTGACCATTTCTAGATCAAGGATTTTGGCGAGTCAATTA
CCGCCATTTTACTGCCATTTGTTTATTAATTAGGGACTTTACTAGATAACGGTTAAAAA
TCCCATTTCGAACGAAATGGCAAGGTTTATACCGTCGTTGTCCCTAATGCGCAATCAGCAA
CATTATTGCCGATTATCCGAGAGAAAGTTAAGTCTGATGGCATTGTGTATACGGATACCT
TTCGTAGTTATGATGTACTTGATGTCAAGTGAATTTAGCCATTTACGCAAGTTTCCAGTA
TTTGACTGGCAATTTAAACAGTCGGATTTGTCCATTTGTTGGCCAAAGTCTTTACTTG
CTTGGCCGTTTGAATTTAAAAAGCAGTCTTTCTACTTTCCGACCTTTTTTCTGTTGTAA
GGTCTATAATCCATAGCATTTCCCAAAGAGCATTTTGGACGTTGGCGGATTTCGCATTGA
AGTGCAACTTTCCCTAACAGAAAAAGGCCAGTATGCGGTAGCATACGGCTTTCTTGCAA
GAAAGATTGCCATGAGCTACACGCAACTGACCAAGGCGAAGCATACCACATCCAATACC
TGTCCCGCCACTGCACCTCACCAGAAATCGCCAAACAGCTGAACCGCCACAAAAGCACC
TCAGCCGCGAAATCAGACGCGACCGCACCCCAAGGCGAGCAATACAGCGCCGAAAAAGCCC
AGCGGCAAGCCGCACTATCAACAGCGTAAGCGCAACCCATATAAGCTCGATTTCGAGC
TGATTGACGACATCGACACCCCTTATCCGCGCAAACCTCAGTCCCGAACAAGTATGCGCCT
ACCTGTGCAAAACACCCAGCATCAGCTCCACACAGCACCATTTACCGCTACCTTCGCC
AAGACAAAAGCAACGGCAGCACGTTGTGGCAACATCTCAGAATATGACGAAACCCCTACC
GCAACCGCTACGGCAGCATGGACAGAGGCAAGTACCAACCGTGTGCGCATAGAAA
ACCGACCCGCTATTCGTGCGACGAAATCCCGTATCGGCGATTGGGAAGCCGACACCATG
TCGGCAAAGGACAGAAAAGCGCATTTATGACCTTGGTGAACGCGTTACCCGCTACACCA
TCATCTGCAAAATGGATAGCCTCAAAGCCGAAGACACTGCCCGGGCAGCTGTTAGGGCAT
TAAAGGCACATAAAGACAGGGTGCACACCATTACCATGGATAACGGCAAGAGTTCTACC
AACACGCCAAATTAACCAAGCATTTGGCTACGAAACGCCAAGTGTTTATTCTTGAATCTGTTCC
CTTGGGAGAAAGGGCTGAATGAGAACCAACGGACTCATCGGCAATACTTCCCAAAC
AAACCGATTTCCGTAACATCAGTGATCGGGAGATACGCAGGGTTCAAGATGAGTTGAACC
ACCGACCAAGAAAAACACTTTGGCTACGAAACGCCAAGTGTTTATTCTTGAATCTGTTCC
AACCCTAATACACTAGTGTGCACTTGAATCCGAATCTAAGGTCATCTGAAATTAAT
TTAGTTTTTCAGACAATCTTTTTCTCAATTGGAACGTGGAGTTACATTTTACCTAAACT
ATGCACGCTAGATTTATAGATAAACCATTCAGACAGTCCAATAACATTATGGTTGGGAT
TACCAATATACCAAAACTACCGACTCTTTCAGATGAATTAATAAAGAAAAGTACCCATA
TGTATAAAAAACATGAAGGTTAATATGACAGATACAGCAAGTTGATTTTGAATATCCCA
TCTGAATAAAGTTGATAATATCACTGGAATTAGAAACCATAACTATAAACCACC
CCCTACCATCCCAATATAAATCTATTACCCCTAAAAAAGATAGTTTAAATCATTACC
CCATAAACCTGAAAAATTAAGGCCAAAAATACTCCACCTATTAAGAAAATAGATTT
AATATTTTGAATAAGATAAAATAAATTTTTATTTCATGGCTTGCACTCCCTGTTTCTCA
GAATATCCCATAGCTTACAACCATATTTAATTCTAGATTGTAATCTAACATATTAAT
CCATCCTCTATTTTTTCTCTCATCTAAAGGATTGGAATTTATGAAAATATCTTATTT
GATGTTACCCCTTAAATCAATGACAAATATCCTTCTCATCTACTCAATATTTTTGTTGA
ATAGGCTGTAATAACTTTTGCTCGCTTTTCAACTGTTGAATATCCCACTCCCTAGGATTA
GTTTTTTTATTGAACACCTCTTAAATATAAATCCATTACTATCAGTGCATTGCCCT
GACGCAGCCCTCCATTCATAAATTGGAGGATTACCAACAACCTTTACCTGCCGCAAAAGTT
ATATAAGAGCTTCTCCGCTTGCCCTTAACCCAGTTATAGCAGCAGCGATACAAATCA
GCTCCACCAAAACCATCGTGCTTTTGAACCAAAATTTGCTCATAAAGATTGCTGGCAGCA
AAGAAATCTGCACGATTGTCAATGGTGTGAAATACTTGTCAAATCTGTAGATGCCCTT
TGTGAGTTATATAAATAGCCAAAACCTTTTGGCAACCCGTGATACATCCGTAGGCATA
TACTTCCACGCAGCAGGCATGGCAATATATTTAATAGACATATTAATGCCGTTTCTGCAA
CCATCGCCCAATCGGTTCTAGAACAGACTTTTTGAATTTCCGTATCAATTACTTTTGCTA
AATTGTTTCATCTTTTTGATGGCATTACTTTTTCCATCGTAGTAGAACAAAGTTTACCG
GAAAGGCATTTGTCAATTTATCCATTCTTCTCTTGCTAAGCGCATTAATCTCTACCGCC
ACAGCAGCCGATTCGCGCAGCATTCACATCCCGCTTACTCAACGCCGCAACCGTCCCT
GCTGCCAGCTTCGCTTAGCAATGATTTTGGCCGCTTTTACATTACGGCTGCCCGGG
TCTCTGCCGTCCAGCAGGCTTCGCCGAGGATTTACCGACCGCCGCTCCTATCGCGCCA
TCCTGACACTTGCCCTTATTCGCCGCGCAGCCGACAGCCGCTATGGCATGGGCAATC
TTGTGGGTAATGTAGTGCTGATCCAACTGTTGATTTTACTGGCTGCTTCTCCATGCGCA
GTATTACCAAAGCCGCAAGGATATTCGCTTCCAGATTGCTTTACGGCTGCCGCGGTTG
ACAGCGGTATTAATCAGTGCGGCACTGCCCGCATTTGGCCAGGTTGACGGTCAGGTTGTTG
ATCCACTGCTTATCGCTGACATTGTTTCAAGTGCCGAAGCACCAGATTGTTGTCGGCTACGCCCT
GCGGTAGCGACGGCAACCATCAGATTTTTACCGTGCTGCTTCTGCCAGCTCTTTCAGG
GTGTTACCGATATTGCCTTTGTTGTTGATGAGCGATACGGAAGCCTGGCTGGCCAGCGAG
GCGAATGCGGCATCGGTTGCCGCTGCGGCGCGCGGTTTAAAGCCAGTGCGGCTCCGGCT
CCCGCGCCCGCAGTAACACCGGTAACAGCCAGCGCAATAATCGCTGCTCCGGCTCCGGTT
AAGCCTTCTCTGTTTATAGTCCCATTTGTCGTACGCCAGTTGTACCTGGTTCCAGTTGACG
TCTTTGGTGACTTGGAGCTGTTTCAAATAGCAAGCGTAGGGGTGCTTTCAGCAGCGCAG
CATCTGGGCAATATAGGGAATCTGAATATTTACTTGCATAACAAATCCGCTCTGAAAA
ATTGTGAGCTTTTCAGACGGCATTGAGCCGTAATCATGGAACGCGTGCGTGCTGAAGCA
CACACCTTACGCATGGATTTTAGGTTTATGACAGGCTACAGCTTGCTGCTATTCATCAAA
TTGCGGCCATTGAAAGTCTGTTGTTTACTTTTCACTCTCAACAGTCTAATCATATCGCT
TTTGAGAAACTCAAAAAATTTTTAATATTACCAACATAGAGCATAGCTTCACATAGTGA
ACTACATGCAGATTTAATGTCTTCATTGTCAATAGCATATTGATATTCCTTCATATGCTG
AAAAAAAGAACTCAAGCTTCTTCTAATTCATCATTTCAATCAGATGAATAGTTAGAAAG
CCATTGTAAGTCAAGAGATCTTCACTATTCAATTTTTCAGTTGTGGCTTTCTCATAAAG
ATCAATCCTTGTAAATTCCTAACTCTTAACTTTCTTTTACTACATTAATTTTTT
CATCTGAATCACCTTATTTAAGATTCAATTTTCGCCCTTGCCCTGCTAATGTCTTAGCTT
AATTTTGAGCGAGTTTATAGGTTTCATGCAAGTACAGCTTACTCAGCACACAGAGTCTA

Appendix A

-414-

AACAGTATACAGGGAATCTAAATATTTACTTTTCATAACAAATGCCGTCTGAAAAAATTGA
GCTTTTCAGACGGCATATGGCCGTAATCATGGAACGCGTATACTGAAGCCACACCTTA
TGCATGGGTTTTAGATTTTCATGCGGCTACAACCTTGCTTTCTATTTCATCAAGAGATGGCC
ATGAAAAACTATTCTTTTTATACTCAGCACTCAATAATGTTGATATATCAGTTTTTTATTG
AATCAAAATATAAGAGATAGATTACCTGCGTAAATCATAGCCATAAATAAAGAATTACTGG
CAATTTTGAAATTTTTATCGTTTAGGGCTAATTGGCATACTTCCATATAATCTAAAAAGT
TTTTTAAATCCTCTTAATTCATTATCCCAATTCCTGCTGAAGTATAATCTTTAATCC
ATTTTCATATTAGCTGTTTCATGATTAACCTTCTTCTGATACTTTTGATCTGTCAAATCAA
ACCTTTGATAAAGCCCCACATTAATCAAGATTTTTTTTATATCATTCAATGTTTCCATAA
AATTTCCATTATTTAAGTTTAAATTTACGACCTTTTGCTGCCCGAGTTTCATTGGTTAAG
CGAACCATCCATATTTAGAACAACTTAAAGTTCCCATTTTTATCAAAAACCTCTAAATG
ATTTTTATGTTGGCCATCTAAATAAAACCTATCACCGGTTTTTAATAACCTTGGTTTCT
TTTTACCAAGAAGACAGACTGCCCTTGCTGCGTCGGAAGCGTTGCTTTTTCTGAAATTTG
AGCCAGCTGTTTTTCCAAAAGGATTATTTTCATGTATGTACTCATATTCGGTACAGCACC
TTTATTAGGGATATAAGGACGATTTTTTTCTAAACTTCTTGACCTTTTGTCGCCGCTTC
CCCTTTATTAGCGGATTACAGCTCTGTTCCGACGACAATATCAATAACGGCTTTGGCATC
GTTCCAAATCCAATGTTTTCTGCGTAAGGTGGTCAAGGTTGTCGGCTAAATATAACCTTC
GTCTTTCAACGCTCTGTTTTAAATCTCTAACGTTGATTTTCCGTTTTTTAATCCTTTTCT
GGCTACCTTATAAACCACTTTTGCAGCAGTTACAACAGCTTTAACCAGCATTTTCTTAC
CGGTTTTGTGCGGTTTTGTGCGCAGTATTGACATCTCTCCCGTTACGCCGTGCAACTGT
ACCTGCCGCAAGTTTTGGCATAGGCGGTAATTTTCTTAACCTCCAGATCTAATTGTTCCGG
GGTCATATCGCTAAATCGGTATTTTTAACCAGGCTCCCGACAATCTCACCCACAGC
CGCACCGATCGCGCTTCTGACATTTGCCCTTATTGCGCGCTGCAGCCGACAGCCCGC
TAGCGCATGAGCGATTTGCGTGGGCGACATAGTGCTGATCCAGTCTTTGATCTTACTCGC
CGCTTCCCATGCGCGGTATTACCAATGCCGCCAGGATATTTGCCCTCCAGATTGTCTTT
CAGGCTGCCCGCTTAACAGCGGTGTTGATCAGCGCGGCACTGCCCGCATTTGGCCAGGTT
AACGTTGAGGTTTTTACCCTAAGGGTTTTCGCTCCAAGTGGAAGGGAAGAGGCACCGAG
TTTGTGGATACGCTGCCGTTGCCGCCGCTACAACAGATTTTTTACCGTGCGGCTTCT
GCCCAGTTCTTTCAGGGTTTTGCCGACATCGCCTTATTGTTGATGAGCGATACGGAAGC
CTGAGAAGCGAGTGAGGCAAAGGCGGCATCGGCCGCTGCTGCCGCTGCCCGTTTTAAGCC
TAGTGCGGCTCCGACTCCCGCGCCGCGAGTAACCACGGTAACAGCCAGCGCGATAATCGC
TGCACCGGCTCTGGTTAAGCCTTCTGCTTATAGTCCCATTTATCGTAAGCCAGTTGCAC
CTGGTTCCAGTTGACGTTTTTTCGCTACTTGGAGCTGTTTCAGATAGGCATACTCGGGCTG
TTTGGCCAGCTTTTCGATTTCGGTTTTTCAGATTGCCTTTGGGGATGTCGACAATGTAGCC
GCCGGGAGCAGAGAGTACGGGCGCAACGGAGCCTGTGAACTTGGCAGTTGCAAGGTTTC
GATATTGCTGCCGCTCCGGCCTGTTTCTGCCAGAGGGCAGATTGCTACTGCTTACTGT
TTCAGTGCGCACACTACTTTTGATGCTTCAAGAATAATCTTGGCATCTGCTCGTGCTG
ATCGCTACACCTGCACGGATGGCTGCGCGCCAGCGTGGTTTTCAAACCTGGGTGCTTG
CAGTTTTGGCGTCCAGCCTGATTGCAGGTTGGCCGATTCTGCAACTACCTTGAGGGCAG
GGCGGTTTTTCATGGTTGGGTGGTGGTGTGCTGCACCTTGTCTAGGTAATGCCGATAAA
TTTGGCGTTGGTTACGGGTTGTCAGTTTTGTCGATGTTGAGATCTTCCACGGCATAGAGAAC
CAGCCCACGTCGGCTTCGATTTTACGGAGCCGCGGGGTGCATCAAACAAGGTGGCGTG
GGCACCGATATTGCCGCGGATTTGATTTCAATACCTTGTGACGCACTGAGGCTCACCGG
GTCCGCTTTGGCGTTTTTATGCTCTTTGATTTTCAAGTAAATGTTTATGTTTGTACCACTT
ACCGGTTTTATAGCTGCGTTTTATCGAAGGTGTAGAGCTCACCTGTCCGGCGTAGTAGAA
CTGGTGCCGTTAGGATTGCAGTTTGATTTTGCCGTTTTCCGAACCTGATATCCGTGGTGCT
CAGCAGGATGCGGCTGTTTTTCATTGGCATACGGCGCGCTAATGCTCACACCGGTTTTACC
CGAAAGTTCTGCAGCAACGGTAGGAGGTGCTTTCAGCACGCGCGCTGTAACAGTATAC
AGAGAATCTGAATATTTACTTGCATAACAAATGCCGTCTGAAAAATTGTGAGCTTTTCAG
ACGGCATTTAGCCGTAATCATGGAACGCGTGCGCGCTGAAGCACACACCTTACGCATGG
ATTTTAGGTTTTATGCGCGCTACAGCTTGCTTCCATAAATCATTTTTATCAGAGCTCGTA
GGTACGGTTAGCCGCTTTAGCGGCGTAACCGTACGAATGAAATGCCAAGTTGCAAGGCC
GTCTGAAAAAGTTGAAAAACAGATTTACAGCGGCTTGTATTTTTATAAAGTTTGTGAT
ATGCGTACGGTTACGCCGCTAAAGGCGGCTAACCATACCTACGCTTGCTCATAAATATCA
ATATTCGGCAAAATCGGCCAAATCTATTGGACACGCAATATCCACCAAAGCCATTCTAAG
TAATACCAAGGTCTTACGGCCATATTGCTTGGGCATCTTCCAAAGTAGGCCATATGTCT
TTCAATTTCTGCACTTGTCTTTTGAAGTTCCAGTTAGAGGAATCCGATACCGTCGGTA
TAATCATGTAAACGGATTGAACCGTCATTTAACAGTTCTTCCATAAAAGAACAGAAATTG
TTTTTTAAGTTTTTCATCTTGAATATTAATACCAATTTGATTTTTATAAGAGTTAAAAATT
GAGGATAAATCGATTTGAAAAATCAAGAATCTTAATTTTTTGTCTCATCCACGGTAAAA
TCCTTTGTAAATTATTGGAATTTAAGCTCCAATTTAGTACCTTTAATAAATGATGGAGGA
TTCTGCAAAATCTAATGTCCATCGTGCTTGAGTTGAATTCTCTGTTTTTGAAAAATTCTT
AATGCAATTTTTGTTCCTGCCCATCTCCAGTACTGATAATGCCATTTGCTAATCTCCG
TCAGGCAAACTCTAAATTCGGATTCTGCCAGTCACTGCCGATAAAGCGCAAAATC
TCCTGTGCTTACGCGCGCTGTAACCGGCTGCTCCCTTAAGCTTATGGCTGTACAGGT
TTGATGGTTTTTCCGTTAATGGTTATCGGAATATTACTTGATCAAGCAAGCCTGCTCCT
TTCCTTACTCTATTGTTAAATCCCGTCTTCCATGCATCCAGTTGCGTATCGCGTTGGGCA
ATACGGAATAAATCTGCTGTTCTGCTTTGGCTAAATTTGCCAAATGTTTATTGTTTCT
TTAGGAGCAGCTTGCTTAGCCGCTTCTGCTTTTCGACAACGCCCCACAGGCGCTTCCCAA
GCGTTGCTTACGTTACCGCACCCGTGGCGATTCCCGCGCCCGCTTCGGCAGCCTGAGTG
ACCATGACAGTACAACCAAGGATTAGCCATGCAGGTGCTGATAGCTAATTTACCCGCT
GTACCGATCAGCGAGCTGTCCAACTGCAGCATAAACCCCATAGCTGGTAATCACAATC
GGGCTGTGATGCCATTACGGATATTGCTTATCCAAATGGCAGCATCCTTATCCTGCGGA
TTAGTCATCGCACCTGCTGCATGTGCAGGCATAATACCTTGGAATTTTTTCCAGTGCG
GTTTTGTCGGGCTTCTGCGGTTGATGCTTTTTCGATTGGTAGGGGTACTGTCAAAATTC

Appendix A

-415-

AAAGCATTATTCTACTACCGCCACCTCAGCCGCATTGCGCGCAGTATTACATCGCCGCCG
TTGAGTGCCGCCACGCTGCCGGCAATAATCTTCGAGTAACGTATAACCTTATGCTTTTCC
GCATCGCTGAGTGTAGCAGGGTTTCTGCCGCCAAGCATGGAGTCGGCTACGATTTCCTCCA
ACTGCTGCGCCAATTGCCCGCTTTACATTTTCTTGTACCAATCCGCTAACACACCCA
GCCAAGCGTGGGCGAAGTGTGGCAACATAATCGTCGCTGAAGGTTGTTTGTATTG
CTGGCGGCTTCTCCTTGAAGCTATTAACCAATGCTCCTAATGCGGCATTGCCAAGTTG
TCTTTCAGGCTGCCGCCGTTGACGGCGGTATTGATACCAAGCTGAGATACCTGCATTACTG
AGATTGGTAGCCAGTCTGCCTCCAAGGTTGGCAATAGTTTGTATTGCCCGTACTGCTGAAC
AGTTCCGTTCTTACCTTGCTGTTCAATTGGGCAATATCTGCGCCATCTGATTTAATGCA
CCCGCGTCAAGGCGAGAAGTGACAATCTGCTTGACCGTATCACTGGTGCCGAGATCTTTC
AACGCTTTGCCGACATCACTTTTATTATTGATGATGGATACAGCTGCTTGGCTATACAAG
GAGGCTAAAGCAGCGGTTGTCATGGCAGTCGCTGTAGAAACGGTAGTAGCTGCTGCTGTC
GTTGTGGCGGCTGTTCCGGCAGCTGCGGCTGTACTACTTCTGAAGCGGCTACACCGCCC
GCTGCGGTTGCGCCGTATCCATAAGTCAGTGCGGTTACGATTATGGTAACAATCGCTGCA
CCGGCTCTGGTTAAGCCTTCTGCTTATAGTCCCATTTATCGTAAGCCAGTTGCACCTGG
TTCCAGTTGACGTTTTTTCGCTACTTGGAGCTGTTTCAGATAGGCATACTCGGGCTGTTTG
GCCAGCTTTTCGATTTCGATTTTCAATTGCTTTTCGGAATGTCGACGATATAGCCACCG
GGGGCGGTCAAGTTGGGCGGAGTAGGGCTTTCGAAGCTGGGCGAGTTTCAGCGTTTCGATA
GTGCTGCGCGCTCCGGCTGTTTCTGCCATACGGTTGAGTTGGTTTCTAATTTTCTCTCC
GACTGGATACGGTTCAATGCCCTTGGAGATAATTTTCGCATCGGCACGGGCTTTTTCG
CCTACACCTGCCCTGAATTTCCGCAACCGGCCAGCGTGGTTTTGAATTCCGTAACCTTCGAGC
ACGGTATCCAGCCTGAACGGGTGGCTGCAGTTTGGGCGACGACGCGGACAGGCAATTTG
GTTTCGTTCAAGTTCGTTTTTACTGTAATTGCTCTTGCCCTACCTTGATGCCGATAAAGCGG
CGGCTTTTTCGATTTCCGATTTCCAACTCGTGCTTGTGGATGCTTCTTCTGCCAGCAGTTGCAGC
TCTTCAACCGCAACAGGGTAACCTTACCTGCAGGGGCAATTGAAGCGGTTGGTATTAGCT
TCGATGTTGCCGCTGCTGAAGCGTTATGCCGTTGGCGGTGAGCTCGACGGGGGCTGGC
ATAATCAGGTGGTCCGGGTGCTGGTAACTTGGTTTTCTGATGATTTTGCCGCTTTTA
CCTTTGGTTTTTAAGAAGGTATAGGCATCGTTTTGTCCAGCCTCCAGTACAATATCACTA
TGGGCTTTGATGCTATGCTGCCGTGAGGGAGCTTTGATTTCCGATGCACCGATAAATA
CGTGATCATCGAGTGCCGAGCTGCATGAATACTTACCCCTGTACGTCCGGTCAAACGT
GAAGGCTTGTTCAGAGCAGCTTTTGTGCTAGTGACTCTTGTAGGTGGGCTTGCCAATTCA
TATTGGTCCGTTATGCCGTCATCAGAATAGCAGCCGCTCTGAATCTGCTGCCTTTGGC
AATACGCTGCGCGCTGAAGGTTCAAGTTTTTGGAGCGGTAATATCGGAACCGCTGATT
TCGATGCCCTTGTGCGGAAATCAAGTCAATATTTGTGCGAAGGCTTGGCTTGCAGGTAT
TCTTTGCTTTTGGGTTTTTACCTTTAAGCTTCTTGTGATGGCTTGAATATAGAAAGCG
AGACGGTCCGCTTCTTCTGCAAGGTTGGAATCAGCTTGTCTTTAGCGCAGCTTTTTTTC
AACTGCGCAATCTGCTGTTTCAATCTTTGGATTTTGGTTGAGTTTCAGCCGCTTTTTGT
TAGGAAAATAATTGCTGAATGAGTTGTTTACGGCTTCGATATCAACTTGCTTTGGTG
GTGGCGACAACCAAGTTTTTACCAGCTGTAATTTTAGAACCTCTTAATCTGTTTCTCCT
GTAACCAAGCAGGATATTGCTTTTGTCTTCAATGAGGAACTTGAACCTAGGCGCACCT
GCATTTCTCTCTTTTGCAGACAACAGCAATTTTCCGCTGTTTTGATGCTCAGGTCGGTA
TGCGCACTGATGCGGTTGGCAGGTTTCGATGGTTAATGTGCCGCTACCTGCTCAATATTC
AGCCGCTCCGGCAATGGTTTTAATTCGGCATTATCTTCAAAGTTTGGTGGAAACGGTA
CTCCAATTGATGTTGCCGCTTGACTAGGGCGGTACCGGCAGTAAGGTTGATTGCACCC
GCTCTCAGCGTGGCTGTTTCCGCAATTTGGGAATAGCGCGCATTGAGTGCCAATACACCG
TTAGCCACAGCTTGTGGCAGAAGGCAGTTTGTGCTTTTGCCTAATCTGGCTGCCGCTA
ATGCTTAGATGACGGTGTGCGTAGGCATCTACTTGGTTGAGCGTTACCCGCTCGTGTGT
GCATTAAGATGCGTATTATGGGTAGACTCCAGCTTGGTATTTCTATGCTCAATGCCCGG
TCGGAATGAATGTTCAATGCCCGCTTTTGGCATGGACGTTAAGGTTTTTAAAGTCGGCA
TTACCACCGTTGTTTTGATGCTGATGTGTTTTCCGTTGATTGAATGCGTGTGTTTTCCG
TCACCAAGCTGAATACCGTTGCCGCAACCAACGTAATATCTCTGAAGATGAAGTGATA
TTGGTATTGTCTGCTTTCAGACGGCTTTTACCAACCGATCTCGATGACATCGGCCTTG
GCTGTCAAGGTTATTGTGACCGGTAAGTCGCGATTACCGTTGGCCAATAAGGATACATGA
CCGCTCTCGAACAACAGCATGAAGGCCGCTGAAACGATATTGCCCTGCAATGCGGTGGT
TCGAGAGCCTTTGGCTGCTTACGCTTGGTATTGCGAAGCTGAATATTGCCCTTTGGCTGCC
TGAATGTGCAGATTACCCGAGTTGGTACGCAGATTGGTATTGGTAACATTACGCGAGCCT
GCCTCCACACCATGCTTTTGGAGCAGTGAGGGTTTTTACTGGTGCCGGTAATATGGGCA
GCGTTATCCGATTTCAAATGGATGCTGGCGCAGACAACTTTATCAACATTCAAATTC
AGATCTTTACCTGTATGAACATACAGATTGCCGGGAGTATTGAGATTGGTAGTTTTGGCA
GTAATGTTATCGTCTGCCAGTAAAGCAAGCTGCTTGCCGCCCTTGATACTGCCTCCGTTT
AAGCGGATATCGGAGGTAAGTGTGAAGCTTCCAAGAAAGCGGTTTGCCTGCTTCGATG
TGTGCGGTGCTTTTGGCACTATTACGGCGGAAGTCTGATGGTGCCGTTGGATAATACG
GTAACATCTGCCCCGTAATGCGTGTGTTATTGCCATAATCGCGGTTGCCCTTGTCTGGAA
CTGTATACGGTAGTGCCAGTCTGAATACTGGCCTCCTTGATGACGGTACGGCCGTCGGCC
GACAGATGAGCGGGCTTTGGCATTGTTACATAGTTTGTCTCAATCACCAAATTA
TGACCAGCATTTAATACCGTGGTAGCTGGGCGACTGCCGTTATTCTGCACCACGGCTCCG
TTACGCAAGCTGATATCTTCTCCGCTCTCAATAACCAATAAGCCTTTGCTCTCGATCCGA
CCACCATTTGGAGATAAATGTGCTGCCGCTCCTTTTTCGGTGGTTTTGATGGAGAGATAA
GTCGGTGAAGCTTCGGTGGCTGCGCAGTGGTGGCGATGCGGCCGCTGTTTTCAATGCGG
CCTGACGAAGTCACAATCAATTGCTTGGCCGCTTCGAGTGTGCCGCTATTTTACGCT
ACGCCTTTTTTCAATGGCAATCAGTGTGATGCTGTGCGGCTACATACCGCCAGTGCGGCA
GTATCAAGGGCAATAGTCGGTTTTCTGTAACCGCTGCCGTAACCTGATGTTTCGCGCTG
GCGTAATCTACTTTCTGAGGACCGGTAGAAACCGCCAGGTTTTTACCTGTAAATTTCCCC
TGCAAGGAACGTGACAGCAAGTACCCCGGTGATGCGCTCCGCTTTATCATTTCCAA
CCTGCTGCTCCTACGGTCAATGTGCTTACGCAACATCAATCCTGTCAAGTGCACCGTCT

Appendix A

-416-

TTGCCGATTTTGGGGCGCACCGGTAGTTAAGATGCCCCGACCGACATTTTAAAGCCGCGG
CCATTAACGGTAATGCCGTTGGGGTTGGCAATAATCACGTGGCCCTTTTGACCGCCTACG
GTAACGATGCCGTTGAGTTTGGCTAGCCGTACCGCGTACCTCGTTCAAAATCAATTGCGCA
CTGCCCTTGACCAACAAACGGATTATTTGTTACGGTCGTTGTTTAAACACTGCCCTTTGTTG
TCAACATCAAACCTGCGTATAGCGGTTGTGGCTCAATCCGCGTCCATTCCGAGTTTGGATA
TTCACCAAGGGGGCACCAGTGTGGTTTTAAGGATAACGACCTGCTGGTTTTAGGTGCT
GATTTGTCGGTGTGTAATTTGGGCATGGGCAGGCAATACCATACTCAGGGAAACCAAAGAG
CAGACCAAAGTTTTAAGGGTGGTTTTGAGTTTGGCGCAAAGGTGCGCTGAAGTTTTCAGT
GAAACAGAAACCGAACTGCCTGCCTGTTTACCTTTGCCCTGGCTGTTGGCAGTTTCGGCT
ACTGCAACCATGGTGTGCTTTTACTAAAGATAATGCGATGTAACCTTTATTCTATG
TCTATTCCATTTTGAAGATGAACGTACTGCGCGCCAAAGTACGTAGGTAAAGTTTGACGGT
CTGAGGATAAGGAAAGACCGTCTAAATATCAGTAAAAAATTCAGAGTTAGAACTGTAA
TTCAAGTTGAAGCCGTAAACGGTGTGGTGTGCTGTAAGCCCTTTGGGTTTATGAAGCGGC
TTGCCGCGCAACAGATCATAGCAAAACATACCGCCTACTTTATGCCCTCCTCTGAAGCCG
ACCACTGCACCCATCAGCTGCTTGCCCGATACATATGTGCACTTTGCCAGATACGCGG
CCATAGTCCGACCGAGATAGAACGTATGGTTCCGATGAAATACCAAGTTAAAGTATTC
TGCCAGTAGAAACCTCGCTCTCCGAAAGACTCTGCTCCCATCAAATCCGCGAACGGTG
TAGCGGCTGCCGATTGACAATTTATCTTGGGCAACCAACGGCGTTTTGTTCCATTGAGCT
TGAATGGCGGTTGCGTAGAAAACTGCTGTTTGCCATAAAATAAATGGGGCGGCTGCGTCC
AAACTGGCAGTAATGATTTTCATACGAGATGTACCTGGAAGAATATCGCCGCGGTTTTCT
TCCGGTGCAGGCATACTTTGGCGCATGCCGTCGCCGCTTTGTAAGACAACCTGCCGTCA
AGCTGCCAACGGTTGAGGTAGCAGCGTGGCGCAATTCGGCTTCCAGCCTGCAGAGCGG
CGCGCTGTACTTCGATTTCCGGCATCGTCGATGATTTTATAGGTTTGGCGTGTCCATAAT
TTCATTCGCACTGAAGTTTTATGAAGTCTGTTACGCCAAAGCATGCGCTCGCGCGCCAGG
CTGCTCTGATATTGTTTGGCGTTGTAATCGTAATTGACGGAATAGCCTTCGGTTGCTTCG
TGGTAACGATGTCCATTGTGATTAAAGAAAACAGCCATTTTTTACGGGCGCCGAATAA
TGCACGCTGTAACCTCTGGATCCGCTTTCAGTTTCCGTACCGGTGGCATCAGTCAAGTCC
GTTTTGTGCGCCAAACCGCGTCCATATGAAACATAAAACAAATCGCTTAAGCCCAAAGGG
TTATCGAACGATAAAGCGACATTTCTTGATATTTGCCGGTCGTTTTGCGCGCCGATCA
TCTATACCGATACTGAACCGTATGGGTTTTATCTGCTGCCATTTGATCTGTAATCGCTT
TTGCCCTTCTTCTTCGACCGGTATAATCTGAATATCTGTTTTAACACTCGGCAACGACGC
AGGTTTTTCAAGCCCTGCTCTACATCGCGAAGATTGAGAATTTGTCTCTATATAAGGGA
AATTTGTTATTGAATGCATAACTGCCCTCGGCAGACTTCCCATCCCGTTTTCTTCA
TAGCGGATATCCCTATTCGCTGCTGATACCGTAATTTTCAAGATTTCCGGAATCCATA
TTCTGTGGTTGGATAATAGCTTGGGAAGTGAGGTAGCCACGCACGATCAGTATCTGTTGC
GCGGCTTTTTGTAGCCTGTCAAATATTGGAACCTAAACACATCCAGTTTTAAAGCT
GTTTCTTTTCATGAGCACAGAAGGAAGAAAAGAAAATTTGCGCACCGTCTTATCATCTAAA
CTAATGTAATTTACCCGAGTACACGGTGTTCATCTTCACTCAGGACATAATTGTTCTTC
TCCAATGGTTGCTCGAACGGACATTTGCATCAGTTAACAAATTCAGCATCTATGTGCTGC
TGACGCTGCATGGAACGGATAAGTTCTGCATCGTTTTTCATCGGCAGCTAAGGTTTTAAGG
GGTATGACAGCCAGGATAACCAACAGACATGGAGCAGGAAAAAATTTTCATGACATCAATA
TTATTTTAGCAATATTACTATTTTGTCTATAAATTTAAAGTATTTACAGTTATAGAATG
AGACCTTTGCAAAATTTCCCAAAATTTCCCAACAGACATTTAGGGGATTTTGGGGAATTT
TGCAAGGTCTCGGACAGTATTTTGAACGAGTGCGCGTAAATTCGTATGGAACCATGA
AATCCCGCCACAGCCCGACAGCATGCCAAGCCGATTTCTGATATTTCTGTTTGCAGGATA
ACAGGCAGCTTTTTCTTTAAGCCCAAAGACAGGTTTGCAGATGGGGCATAGATTTCTT
TTTGAAGAAATAGGGATTAGGAAGTTGGATGTATTTAGAAAGGCGCGCTGAAAGGTTTC
AGACGACCTTTTGGCACTTAGCTGCTGCTATTTTATTTAAAGCTTTTCTCTAACAAACGAGCTA
ATATTTTCTCTGTAATAAAACAGATAAAAAACAGCATCCAATACGTCAGATTGAAAAAT
CGGTGCTATAGAGAAATCAACATATAAAGAGCAGCATGATGCCGAGTGCATGAATTGAT
AATGTTTGGCAAACATCATGACCTCTCAACTATTAAGGCAACCGCTGAATATTCTCG
TTCAATCGTTTTCGGCAATTTCCCTATAACGTCGATACCATGACCAAGTTCGAAATTTCAAT
GGCATGGCTCGCAACGTACCAAAATTCAGGCATCCCTATGCGGCTACCTGCTAAAGCTCC
GATTGTAGTCTCCCAACAGGCGGATTACTGAACGTATTGTTTGGCAATCCTAAAGATTT
ATCAGGATTTCCCGTATCTGTAAGCCCTGCAGATTGCAAAATTTGCAATAATATGAGCT
TTGTTGCGCATTACCTGAGCCTCCGACCCAGTCATTTTCATGAACACATATAGTGGATTA
AATTTAAATCAGGACAAGGCGACGAGCCGACAGTACAAATGGTACGGCAAGGCGAG
GCAACGCTGTACTGTTGTTAAATTTAATCCACTATAAACTCTCATTTTGAAACTCCTTGT
ATCGTTAATCAAACAATCAAAGGGCAGATGCCCTATCCTTGCTTTTACAAACGGAGTGC
CTGTAAGGAGGGGATGGTTTTAGGCGATTTTGAAGTTTGTGTTTTATATATTGCTTCTG
GTCGCTGTAAGGTTTTCAGCAACTTCTTTATCTTTACAGCCTCAAGTCTTACAGTTTG
CCCGACATACTATAAATCAGCTCCAATACCATTCGTACAATCACCGTTTCTCGTGTAGG
ATGCTGCTTCCAACGTCATGCCGATTTGCAGCGGTTTTTCTCACCCTATGCAAGTATG
GTTGATTGTGCGGTTTTATTTTCAAGATAAACAGGTTTCGTTGCTCTTCGCCAAATCG
GAGGATACCATGCCCAATCCCGACAAATTCCTGTCTGCCAGTGCCGTTTTTGTCTACTGAT
ACGACACTGCCGGAAGCAAGCCGAATTTTGTATAGGGATATGCCTGATAACGTAGGACA
ACCTTGTCTTTCGGCTTGATAAGCCTGCTGCACTGCTGGGGATATATAGATGGGCATAT
AGCTCGGTACGTTTCGGGAACAATGCTCAAGAGCAGTTTGGAAAGGATCAACCTGCTGTCG
ACTTCGACGTTCCGTTATGCTATATAACCGACCGTCTGCACGGATGATTTGTTTCAGAG
CGCATTTCAAATCCAAACTTCTTGAGAAATATCGGCAATGGTGCCTTCAAGCCAGCTT
TGTTCTGTCTCATGCCGCTTGGGGGAGGCTGGCCAAATGTCAGATTCTGCGTGGGATTTT
CTGAAGCAGCCGCTCTCTTCGCGGAGGATCAAGTTTGGCTTCTGCTCTAAAAG
CTCTGCCCTGACATTCATCTTCTGTTTTGGCACTGCATCATTGGCGGATAGGAAACG
ATATTTCTGCAACATTTCTTCCGCAAGTCTAATGCGCTTTTCTGACCGTCTATCTGTTG
CGAAATATGGAGTTCTCGTTTTCCAAACGTTTCGACAGTTGCTTTAAGGCTGCGCGTTT

Appendix A

-417-

ATTCCCGTGTATCAGCTTCAGACGACCCAGTTCTGTTCTGCCAACGTTTTCTTCAAAC
TGCCCTCCGTTTTCAACTGCTGCTGCACGCTACCTCCTGCGCCGAAACGTGAGGTGCGAAAG
CGCAAATAGCTTGTGCGCCAGCCTTAACCTTTCTCCATCTTCCACGAATTTGCTGTAAAT
TGTCCCCGTATCCGGTGCATACACCCGTGATTACGCCCGATGCAGGTAAAATTTGTCCCTC
CACTGTTGTCTTTGCGGTATAGTTACCAAATATCAAAAACAGGATAATCAATAACGCAGA
TATCGATGCAAAATGTCGTCCATAGGGAATGACAACGGTCGTGTGAGAATCACTTTACC
CGTCAGGCTGGTTTGGCGGGCAACGGCGACTTCGGGACGGAAGAAGGTTGCTTGGGTCT
ATTCAAAAATTGAAGTTAAGAAAGTTTCAGACGACCCCTAGAGATTGTCTGGACGATGA
GAAATATCAGCAGTAATCTGTACCGTCAGTGTAGCCGTTTCTGATTATCTGCTTTTGT
TGCGGGAGCAGTTAATCCATGTTCAATCTCAAAGATTGGTCTTCCGTTATAAGGAGGTGC
ATTAACGGCATCATTTACCCAATTACGAGTCACATTGTATACACCATTTCACCAGCAGC
ACCGTAAGCATTTTTCGGCAGATAATAAACTGCGCTGCGGCAGCAGGTATTGCAACCAA
ATCCCCCATGTGGGACCTCCTTTGGTTGTGGCAGCATTAGCTACATTTCCAGCTATATT
GTCTGTTACAGGACCTCCCTGAAACCCAGCTTCAATTCATGAAGTTGAAGTTCAATCAT
TTTATATCTCCTTTCTTGGTTGGTATTCTTAAAAATTCGGCTAACAAAAACATATGGCA
GATATATTGAAAAAAATTCAAAGTACCCGTAATAAAATTCAAATTCACATATATTGT
TAATGTAGTCGAGAAGAAACATATCTGATAAAAAATATAGCACTTGATAACAAGCTATTA
CTAATATTACGAAAAATGTAAATTGCTTCCAGTTTTTCATAGAATCCCTCACAAAATTC
CAGAAAAATCTAATCTATCAACTGATAAATCAACTTCCTAACTTCTCATATTTTCCCTG
ATTGAAGTTAACAGTAGATTTTTCAACAATAACGGTTCATTCTTACCGATGTGTTCTAA
CACTTTTTTCCCAACTCATCTACGCTTATCTTCTATCCCATTCCTCAATCAATATCCCTT
TTCCAACGATATCCAAATATTGGCATTAACTCTCAACCTGACGTCGTCTGAAAGCGGAGT
AGCGTTGGGATTCGCGAATGTTTCGAGATGAAAAGCGGTATCGGTACGTTCTTTGCGGAG
AAAGTCTTCACTGAAGCCTTCTATAATTGACGGGTGCGCAATCATGCGAGCAATTTGTGC
GGCAGTATCGTTGATACGCGTCTATCTTGTCTCCAGTCTGAGAACTGTGGCGCAGACT
TTCTATGTTGGGAAATTTCTTATAGCCACTCGAGGTAAATATAGCCGTTGGGTGGAAA
GGTACCGACAGCGAAGTGAAGGTTTACAGCCGAGCGGGATAGGTCTGTGCCACCAACC
GCGTGGGATGTAGAGGACATCACCTGCTTCAAGGATAATATCCATATCGATATGTTTCAGG
AATGGAAATATCAGTATCTTTAGTCTGTTGCATATACAATGGCATAGGGAAATCAGGGGC
AGTAAGTTGCCAACGTTTCTTGGCGAAAAGCTGGATGGCATACACATCGCGGGGGTCCCA
ATGGTTTTTATAAGATTCTCGCTGCTGCCAAAAGCAAGATATCCACTAACAATAGTATGTG
GCCGGCAAAGCGGGCGACTTGACGGGCGATATGGTCTGAAAACGGCTCGTTGTTAATATG
GTTATAGACTAACGACGCACCATTTCTTATATGTTTCGTAGATAACGGATTTAATAAAACG
GTAGCGAGTTTTTGCCAAATCGTCGAACTTTCGACGTATTTCTTCTTAGGAACGATTGC
GCCTTTTTTACGCAGATGAAACAGCGGTGCGGTTGGGTCTGCTCGTTGGTATATCTCGTT
GATATCTTTCCAAGATGCGGATTCCGAGATTCCGAACCGCTCCTTTAAAGAGCTTGGGCTT
TTGATACAGATAAGTCTGTGCGAACGTTTTAGGACTAATGCCGAAGTCGAGATGGATGCT
CATTACTTCCCTTACTCAGAAAATATTTAAAATTTATAATGTTACATATATTTACAAAT
ATTAAAGTTTTTTTTTGTGTGTGCGTCAAGGAATTGTTGACAATTTTAGTTAAAAATTTG
TCTCAAACGGAAAAAGCGGTTTTGTTTTGTTGTTAACATTTTTATTGTAATTAATA
AAAGTCTGCTGAAACCGTTTTTCAGACGACCTTTTGCTATAATCGGGCTTCATCGCCCC
GTTTCGGTTTGGAACTTATGAAAACCTCGTCTCTCTCTGCTTTCTTCTCCACGACCA
CCGCTTTTCGCGCATACGCTTTGGGTTTGGGGCAGGCACCGAAATATCCTGCGGCTTTC
GCGCTACGCTTATGTTTTTCCGACGGCAGGGCTAGGTTTAAAAACAGAGGCGGATG
CCATTAAATTAGACACGCTTTTCAAACGCTTTGTGTACCGTCTTCCGCGGCAATCAAA
ACCCCGTCGGACAGCGTTTCGGACGGCATACCCGCCAACACACAAAGGAAAAACCATGAG
TAAAAAATCAAAGTCGGCATTGTGCGCGGACGGGCTACACCGCGTGGAATGCTGCG
CCTGCTTTCGCGCAATGCGCTTGAAGCCCGGTATGCGCGTGATTGCCGACTGCAATC
CGGTGTGTCGCGCGCGGACAGGAAAGGCAATGTGCGTTTCGTGTTGTGCGAAGCCGGCGA
CAACTTCAAAGCCTACGGCATAGCCGGACACCGCCACCTGCGCGAAATCAGGCAGACCAT
CGCCGGGCTTCAGGACGGCATCGCCGAAGGATTCTGTTTCAGCCCGACCTCGCGCCAAT
GATACGCGGTATGCACGCCACCGTTTACCTCCACCTTTTCAGACGGCAGCGACCCGAAAC
CGTCTGCGCGACTACTACCGCGACAGCCGTTTCGTGGACATCCTGCGGACCGGTTCCGC
CCCCGAAACCCGACGCTGCGCGGCAAACTCTGCGCATCAGCATCCAACAGGCGGC
GCAATCCGATGTGTGGGTCGTTTTCGTCATCGACAACCTCGTCAAAGGCGCGGGG
TCAGGCAGTCCAAATATGAACATTATGTTTCGACTGGAGGAAACACACGGCTTGGACGC
AATCCCCCTGCTCCCTGAAGCGCAACAGCAAACCGCAGGCATCGTGCCTGCGGTTTTT
GATGCGCTGTAAGCGGACGTTTTTTTGGGTTTCGACGGCTTTTGACCATTCATTACA
CGAAAACAAAATCTAAAATACCGTCATTCCCGCAAAGCGGGAATCTAGTTTATCCAGC
TTCAGCAATTTCCGACACATTTCCACACGCTTCGATTCCGTCATTTCTCCGGTTTCAGTC
ATTGCCGATAACACCGTGGTTTTTTCATTTCTAGATTCCCGCTGCGCGGGAATGACGCG
GAGGGCTTGCCTTTTTTCCCGGTAATACCTGCAATTTAAAATCCCATCATTTGCCGTGAA
AACAAACAAAAACCTAAAATCCCATCATTTGCCGCGAAAACAAACAAAAACCTAAAATC
CCGTCAATCCCGCAAAAGCGGGAATCTAGTTTATCCGGCTTCAGCGATTTCGACACATT
TCGTACGCTTCAATTTCCGTTTCTCCGTTTTCAGTCATTGCCGATAACACCGTGGTT
TTTCATTTCTAGATTCCCGCTGCGCGGGAATGACGGCGGAGGGCTTGCCTTTTTCCCG
GTAAATACCTGCAATTTAAAATCCCATCATTTGCCGTGAAAACAAACAAAAACCTAAAAT
CCCGTCATTCCCGCAAAAGCGGGAATCTAGTTTATCCGGCTTCAGCGATTTCGACACAT

Appendix A

-418-

TTCCGCACGCTTCAATTTTCGTCAATTTCTCCGGTTTTCAGTCATTGCCGATAACACCGTGGT
TTTTTATTTCTAGATTCCCGCCTGCGCGGAATGACGGCGAGGGCTTGCCGTTTTTCCT
GGTAAGTCTCTCGCGCTTCTCATTGCCGTTTCCGCCTACTTGGGAATGACGTGATTAA
AATCATGAAAAATGTGTCAAAATAATATAGTGGATTAACAAAAACAGTACGGCGTTGCC
TCGCCTTGTCGTACTATCTGTACTGTCTCGGCTTCGTGCGCTTGCTGATTTTTGTTA
ATCCACTATAAAAAATCAGATTTCCGTTACACTTTTTTCCAATATTTTCAGACGGCATTTG
CTCACACGCCCCAATACCTTCCCTGCGGAAAGCCACCTTGCCAAATGCGCTTCGACGA
TTTCCGGGGTTTTGTTCAATCAGCATCGGGGCGGTTTTCGCGCGCTTGTTCAGAGGTGCA
GGTCTTCTTCGAGCTTGCGGAAACGACGATAGGCACGCGCTTTGGCGCGCGCCGAGAA
ATTGCGCGGGGCGCGGATGTTGAGGTCTTGGCGGGCGATTCAAAGCCGTCGGTGTGTT
CGTAGATGACTTTTCAGCCGCGCTTTGGCGAGTTCGCCCCAAGGGTTTCGGCAAACAGGAGGA
CGCACACGCTTTTCTGCGCGCGCGCGCCGACCGACCGCTAATTGGTGCAGCTGCGCCA
AGCCCATGCGCTCGCGGTGTTTCGATGACCATCAGGGCGGCATTGGGCACATCTACGCCGA
CTTCGATGACGGTGGTGGCGACCAAGACGTTACGCCCCCGAAGAAAAACCGCGCCATCA
CTTCGGCCTTTTCGGCGGCTTTCATGCGCCGCTGTACAGTCCGATATTGAGTTCGGGCA
ATGCCGTCTGAAGCCGGGCGAGGGTTTCGGCGCGGTTTCAGTTTCAGGGTTTCGCTTT
CTTCAATCAATGGGCGAGCCCAATACGCTTGCCTGCGCCCTTTTCGGCAAGTGCAGGACGA
AGCCTTCGACTTCGGCGCGCGGCGGAGCTTGTGACGAGGCGGTTTTAATCGGTGTGCGCC
CGGGCGGCAATTCGTGATGACGACACGTCCAAATCGGCGAAAAAATCATCGCAAGCG
TGCGCGGGATGGGCGTGGCGGACATCATCAGCTGATGACTTCGCGCCCTTTGTTTTGA
GGCGAGGCGTTGGGCAACGCCGAAACGGTGTGTTTCGTCACAATGGTCAAGCCCAAT
TGTGAAACGCCACGCGCTGTGAAACAGGGCGTGTGCGGACGCGGATTTGACGCTGC
CGTCGGCGAGTTTGGCTTTGGCTTCGTCTTTGGCTTTTTTACGCAAACTGCCAAAAAGGC
GGACAACCTTCAATGCCCAAAGGTTTCGAGCCATTGTTTAAATTTAATAAATGTTGTTTCGG
CAAGGATTTTCAGTGGGCGCCATTACAGCCACCTGCGCACCGGATTCGATAGCCGTCAAAG
CAGACAAAGCAGCCACAATGGTTTTGCCGCTGCGGACATCGCCCTGACGAGGCGGTGCA
TCGGGTAGGTTTGCSCATATCGCGGACAGATTTCGGAACAACCTTTTCTTCGCGCATCGG
TCAGGGCAAAACGCGAGGCTTGGCGCAGGCTTGGGTCAATGTGCGCTGCGCGCCCAATG
CGCGCGCGTGCAGCGGATACGCTTCTGTGCGCGCAAGCGCATCGAAAGCTGTTGCGCCA
AAAGTTCATCGAATTTAGCCGTTGCCATGCAGGCGAGCTGCGCTCTGAAAGCTGATGAA
TCGTGAAACTTCGGCGGCGGCGCAATGCAAAAGACGCGAGCTTTCGGCGAGGTGTGGCAGCT
TCAGACGGCACAGCAGGCGATCGGGCAGCGTGTGCTGACGCGGCGTAACGTCCAACGCCG
TCTGAATAATACGGCGCAAAAGTGGGCTGGTTCAAACCGTTTACGGTTCGGGTAAACCGCG
TGAGGCTTTCCGCGCAACCGCGCGCTTCGCGCATCGCGGATTTGGGATGAATCATCTCGT
CGCCGTAAAAGCCGTGTTGATTTCGCCCCACGGCGCGGATGCGTTTGGCGACCGCGCTCT
GTTTCTGATGGTGGCGTAAAAGTGGATGAAGCGCAGAAAAAGGACGCTGCGCGAGCCGT
CGGCGATTTGGACAATCAGCTGCTTGCAGCGTTTGAACGTTACTTCTGATGGATAACCT
CCCCCTCGACCTGACACGCGCACGCCAATCGCGCGCTCCTTAATCGCGCATAATGTGCGCTCT
CGTCTCTGTAACGCAGCGCGCAGGTGCAACACCAATCCACGCGGTATGGAGGTGAGTT
TGTCGAGCTTCTTGGCGGAAACATCGGTGATTTTGAAGCTGTTTTCGGGTTTCGGGCGACA
TCATAGGCAGATTCTTTCGACGCGCTATTTTATCCGAAACAAAAATGCGCTCTGAA
CGGATTCAGACGGCATCGACAGGCAGGAATCAAGCCCCGGCGGCTTCGGCTTCTGCTGT
TGTTGGTAAATCGCCTCAAATTAATCGCGCGGAGCAGGACGGGCGGGAAGCCGGCGCGC
GTTACCGTACCGGAAACGGCTTCGCGCGGTAAGGGAAGAGGATGTTCGGACACGCCACG
CGAGCGACGAGGTTCGGCATCTTCTTCGGGGATGTTTCAAACGGGAAATACCGCTTGG
GTTACTTCGTTCAAACATCGTGCCTCGTTATCCAATTTGGCGGTTACGGTAACGGTT
ACATCCACGTTGTAGTAGCCGCTTCCAGCTTTTGGCTGCGCGGTGGAAACGCGCATCTCC
ACTTCGGGCTCGCCCTGTTTCCAAAAAGATTTCGCGCGCGTGCAGGCACTTCCAAAGACAAG
TCTTTGACATACAGTGCCTCGATGCTGAATACGGGTTCAGTTCTTCGCTCATTTTGT
TCCTAGTTGGGGGTTAAGGGTTACGAGTCCGTCAGCCCGCTTCTGCTGGAGGCGGT
AGAGTTCGGTAAATTCGCGCAGTGCCTTTCGCGGATGAAATTCGCGGACGCTGCGCT
GTCCCGAAAGCTGCTGCATTTTCGGCAAAGCTTCGGGGCTTCGATCGACACGGATTTCGT
CGATATGTCGACACCTGCGCGTGCAGCAGCCTTTTCGCCATCGCGCAGTAGGGGCAAA
ACGGACCTGTGTACATGGTAACGGTCTGCATATTGGGTTTCCGAAAGTTTTCGAATGATA
ATCAATATAGGGGCATTTTCCCTGTTTGGCAAGTGCAGAACAGATGCACGTTCAAACGGC
ATGTGCGGAATGTGTCAAAGTTTCTTTTTTAAAGTATGATAGACATTGTGAAAAATATTT
TTGACCCGCGCTGCGCGGCGGAACGGATGCAAAATATTTTATTACATTTTCAGGAAAA
ACCATGTTGTGAGGACTCCCCATCCCCAAAGACATCGCGCGCCCGCCGAAACGATATTG
GTCAACATCACGCCGAGAAACGCGCGTAGCGGTGTTGGAGGAAAAACAATATCTGCGAGC
TGCACATCGAGCGCAACAGCGAACACAGCCTAGTCGGCAATATCTATTTGGGCGTGGTGC
GCCGCTGCTGCTGGGATGCGAGCGCGTTTATCGACATCGGCTTGAACGCGCGCGCT
TTTTACACATCGTCGATGTCTCGAACAACGCGCGCAACCCGAAAGAACCCGACGCTCG
AACATATGCTGTTTGAAGGGCAGTCTGTTTGGTGCAGGTATCAAAGACCCGATCAACA
CCAAAGGCGCGCGGCTTCCACCCAAATCTCGCTGGCGGGGCGTTTCTCGTCCATCTTC
CGCAAGAGAACCAATCGCGCGGTGTCCTCAACGCGATCGAAGACGATGCGCAACGACGCGC
TGCGCGAACGCTCGACAAGCTCTGCGGGAATGCTGCGGGGCTACATCATCGCA
CCAACGCGGAAACGCCACCGACGAACAGCTCCAGTCCGACATCGACTACCTGACCAAG
TGTGGGAACACATCAAGAACAGGCGAAAAATCCGGCGCGCGGAAACCCTGCTTTATCAGG
ATTTGCCCTTAAAGCTGCGCGTGTGCGCGATATGGTGGCTGCGACACGCAAAAAATCC
TCGTGATTTCCACCGTAAACACGGGCGCATGACGCGTTTTGCGCAACAATACGTCCACG
GCGCATTTGGGACAGGATAGAGCTGTTCAAAGGCGAACGCCGCTGTTTGAACCCACAACG
TCGAACAGGAATTCAGCCGCGCGCTGCAACCGCGCGCTCAACCTCAACTTCGGCAGCTACC
TGATTATCGAATCCACCGAAGCCATGACCACGATAGACGTGAACACCGGCGGCTTCGTGCG
GCGCACGCAACTTCGACGAAACCATCTTCGCGACCAACCTCGAAGCTGCCACACCATCG
CCGCGAATTGAGGCTACGCAACCTCGGCGGCATCATCATCGACTTCATCGATATGG

Appendix A

-419-

CACAGGAAAGCCACCGCGAAGCCGTGTTGCAGGAGCTTGCCAAAGCCCTCGCCTTCGACC
GTACCCGCGTTACCCTGCACGGTTTACCAGCCTAGGGCTGGTCGAGCTGACGCGCAAC
GCTCGCGCGAAACTTAAACCAAGTCTCTGCGAACCTGCCCTTCTGCCAAGGCAGAG
GCCGTCTGAAACGCGCGCAAAACCGTATGCTACGAAATCCAGCGCGAAATCGTCCGCGAAG
CGCGCGGTACGATGCCGAAAGTTTCCGCATCCTCGCCGCCCCCAACGTCATCGATTGT
TTTTGGACGAAGAATCGCAATCCTTGGCAATGCTGATAGATTTTCATCGGCAAAACCGATT
CTCTGGCGGTGCAAAACCGCTTACACGCGAGGAACAATACGACATCGTTTTGATGTAAAAA
TGCCGTCTGAAGCCTTCAGACGGCATCTGTCTATTTAGGGTTTCTTGTCCAACAACGC
GCGTATCAGCAGACCGCGTCCGAAACGTCGGCTGTCTGGACAATTCCAAATATCCGCGTA
TTTTTTGGCAAGCGTGTCTGGCGATGGACAGACCCAGCCCGTCCCTGCTGCTCCGTTC
CAAAATACGGTAAACCGGATCGAGGACACGGGCGCTTCGGATTTCGGGAATGCCTTTCCC
GTTATCTTCCACCCACACGGCAAGATATTCCCTTCGTCCGTGAAACCCAAATCTATCCT
GCCTTCGGGCGCGTATAACGTACCGCGTTGTCTGGCAAAGGTTTTAATCAGCGTATAGAT
TTCCGTTTCGTTCGGCAGACACTTCGACATCGCCTCCGACCGCCACGCCGATGTCTGACA
TTTTTCCAAAGCCAGCGGCATCAGTTCCTGCAACACTTGGCGGAAACGGCTTTCAGACC
GAATGTCGTTTTCTGTCAGAGGGATTTCATCCGACTGCGAACCGCCAAATGCCAAAAGCTG
TTCGAGCAGGTGTTTGTACCGGTATGCTTTGCTGCAAAACGGCAGGCTGCGCGCGCGC
ATCGGGTGGGAGCGGCATATTGTTGAGCGTTCCGCTGAAGGGGAAGGGCGGTATCGG
CGTACGCAATTCGTGTGCCGCGTGGCGCAAAACCGCTGACGGTGGCGGATGTCTTCATC
CGCACGTTTCAAAGCAGGTGTATGGCGGTTACGAAACCTCTGATTTCACTGGGAATATT
GTCACACTCAAAGCAGACAGGTCAATTGATTCGGCGTTGTTTCGAGACTTTGCGACAATTT
GCGGACGGGCGCATGGCTTTGTGCGTAATCCACACGGTCAGCAAAATCATCAGCGGCAG
TGCGCGCAACAGGGGCAACACGCTTTCGCGTGGCGCATCCGCGCCCAAATCTTCACGGTA
TTCGTTTTCTCTGATAACGGCAATCCGTCCTGCTCGGTGTCGGATATAGACGCGGTA
ATAATCGTCGTATCGTCCGCTGAAGCGTGTGACAGCCGTCGCGCAGATGCGCAGGCAG
GCTGACAACAGGGTCTTCTGCTGCGGCATCTGTACCAAAATACGCGTATCGCCGTGCGC
CTCGGCAAGTTTCGGGTTTGGAAATCGGGGCGACGTACAATGCCGCTGACGGAGCAG
GTCGCTCTGCAACGCTTCCGTTTCGTGGAGGTTTCGTAGTAGGAAAACATACCTGCAAG
CATTGCCAGCGGAACAAACATCCAAACCGTCCCGCCCGCGCAACCCAAATCCAGCAGCA
TCAAGTCATAAGGCTGGGCGAGCGCGCGCGCGCTTTTGACCCAATCCACCGCATA
GCCGCGTCTTTCAAACCTTGCCGACACCGCTCCGCAATCATCGCATCGTCTTCCACCAG
CAAAACACGCATCAACTTTCCCTTCAAAATAAACCGTGCCTATTCTAACACCCCAAAATT
AGCCGCAATTTAGCGGTCTTACGCTTGCCGCTATTTTTCAAACATGCAGCACAAAAA
CCGCGCCGCAACTGCCCTTCAGACGGCATTTGGGGCGGATTGCAACACACGGGCGAGCAG
GCAGAGCTGCGACAGACACAGGAACGATTCAGGCTTCAGACGGCTTCGCGGTTTACGG
CAGAGGCAGATTCTCGCGCTATCGAATGGCCAAATATCGCCAGCGCAAAACCCACGC
CCAGAAAAACGAATAACGGATGTGTTTGCCCATCGACAATTCGCCAAACCAAGCCCAT
CCACAAGCGCGCGCAAGCGCGGCGTAACAAAAGTGGCGACGATACTGCCGATCAACATCGC
ATAACCTGCTGCTTCGGGCGCCACGCCCGCTGCGAGGTAATCTGCTCCACAATCGGAAA
CAGTCCGAAATAATAAGCGTCCGTAATCAAAACCACTAAGCGGAATGCCAACACACC
GATGGCAATATCGCATAGGAGCAGCAGCGCTCCGCGAGGATATGCACAATGTCTTTGGA
AATCGGTCACACATCCCGCACCCCTTCAAAATCCCCAAAAACGTACCTGCCGCCAAAT
AATGGACGCCATCATCACCGCGCGCGCGGTGGGCATAAATCCGCTCCATCTGTTCTGTG
CGGGTGCAGTAATTCAAAGCAACGCCCGCGGTTCGAGCCAGCATAAATACATAACCCGG
TGGGAAGATGCCGCAAGAACGAGGCTCATCGCCGCAAAACAGCAGGACATTCCACCA
AAACAGTTTCGGACGCGCAATTTTGTCTTCTTCGACAAAGGCACCGGCTTTATCAA
ATCCGCCACGGCGGGCAACGCGCCCACTCCCGGCAATCCGCTTTTTCACGCACACC
CAAAAGCAGGACAGCGCAAGGATAAACACCAACCGGATAATTGACCGCTCAACAAAGG
TTTATACAATTCGCCCACATCTGCGCCCAACACGCTTGCAACCCGCGCGGTGCGCCGCC
CCACGGCAGAAGGTTAATCAATCCCGCACTGGAAGTCAGCAGCAAAACAGCAGGTAAGG
ATTATATGACAGCGCTTGTAAAGCGGCAAAAGGGCGGGGACGACCAATAAAACGTCGT
CGCACCCGCCCGCTCCAACCTGCGCCACACCGACACCAAGACCGTCCCACTACTGC
CAGGATATTACCCGAGTCAGCTTAATCAAAACCGCTATCATCGGACGGAACAGCCCCAC
ATCGTTCATGATTCCAAAAACAAATGGAACATAAACATAATCACAATCTGCATCAC
CGATTTGGTGCCGCCGAATAAAATCTTTAATTGGGATACATCAAAACCCGCCAGCAA
CGCCCCAAACAGCGGCACCAAGATTAATGCGATGATGGGCGACATTTTCCGTGACGAG
CAGCCATACGATGACCCCGATAATCAGCAGTCCGATAAACGTCAGCATCATTTCTCCTTT
ATTTTATTTTAAACAGAAAACCGACCGTGCAGGCAAAACCGCCACAGACGCGGATAAG
CCCTGCATTCTACTTTTTATTTTGAACAAGTCAATCGGTCATTTCCTCCCATTTACGC
CTGCCGCCATTCTGCATCCGTCCGTCAATTCACAGCGCAACCGATACGGAACAACCGG
TAAATCGGTATCGGGACGGCGCGGGGCAATTCATCCCGTGCGCCGATTCAAACGAAACC
GCCCTATCATTCGGGAGCGCGGGGCGTGCCTACACGCGGGATTTATAGTGGATGAAC
AAAAATCAGGACAAGGCGGCGAGCGCAGACAGTACAAATAGTACGGAACCGATTCACTT
GGTGCTTCAGACCTTAGAGAATCGTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTG
GTTTTGTAAATCCGCTATAAACACGCGCGGTCAATTGCGCGCATATCCGCGCAACCGGC
AAACCTTGACGCTGCCAGCCCATATAAAAAAGCCGCAAAACCCGAACCGGTTTTGCGGC
CTTTCGACTTGGTTTGTATTATTTGGCATTCTTTCAATCAAACCGCAAACTGATTATA
TATGACTGAACAAAATCCCTTGCCGAGTCAATCAATTTGCCGTTTTTCATCAAACAGCGTC
GGCAATTTGCCCAAAACACTTCCGCTGTCCGTTACGGGATATCGAAATAAGACAGC
GCAAGGCGCAGGTTTTTTTGGGAACGTAAACCGCCATCTTGCCGACGGAATGGCTGATG
ATGCTTCCCGGTTTGTTTTTCCACGCCACGTCGGCATTCGGTTTCGAGCCGATGTCCACC
GCATTTTCAAACAGCGCGGGAATGGTGGCGTTATTTTCGAGCTAACGAACAAATGCCG
TCCGAAGCCTTAATCGTTTCGCGGAAAGCCGTGTAGCTTTCCGGTAGCGGCACATCTTCC
ACCGCAGGGTCGTATAATCGAAATTGTAAGCGGCAGATGTCGATTTCAACGATTTC
GCCTGCCAGCCTTCGGGAACATCTCCGCCGATTAATGCCACTTTGCGCGCAAAAGAA

Appendix A

-420-

GCACGGCGCAGGCTGCCACCAAACTACTGATTTTCTTAGCCATAATCATTCTCCTGAA
TATTAAGTTTGTGCGTCTCAATCATTTTCATAATGATAGCGATTATATATATGTGATTTT
CCCTGCAAAACAGCCGGCCGCCACAGCGTTCCCACTTATCCGGCTTTGCCTTATAA
TTGCTTTTATGTAACAGATTACCTATGAATTTCCCAAAACAGCGGCTCCCTGCT
GCTGCTTCTCGCTCCCTCGCCGACACGCGCTCGATACCGGCCGATTCCGCAAAACGA
AATCGCCGTATATGTCCAAGAGCTTGACAGCGGAAAAGTCATCATTGACCACCGCTCGGA
TGTCCTCCGTCACCCCGCCTCCACAATGAACTCGTTACCGCGTTTGCCGCTTCAAAAC
CTTCGGCAGCAATTACCGCTGGGCGACCGAGTTTAAAAGCAACGGTACGGTAAACGACGG
CAGCTTGACGGAACCTATATTGGGCGGCGAGCGCGACCCGTTTCAATCAGGAAAA
CCTGCTTGATGCTCAAAACAGTTGCGCGAACAAGGCATCTCAATATCACGGGACACCT
GATGCTCGACCAAGCCTGTGGGCGAAGTCGGCAGCCCCGACGATTTTGAAGCCGACAG
CGGTTCCGCGTTTATGACGCCCCCAATCCAATATGCTGTCTGCGGTTATGGTTATGGT
GCGCGCGAAGCGAATGCCGCGGCGAGTACCGACATCCTCACCGATCCGCTTTGCGCGA
TATTTTCCGCCAAAACAACTTGAATTTACCGCTCCCAAGCTGCTGCGCTTCGATCAA
AAAATGATGCGTGATCTTTTTCGACAATACGCTGAAATGCGCGGCAATATTTCCGA
GAGCTGTTTGGGCAAGCCTGTGCGGTGTCGGATGTCGCGCTTGACGAACTGATCCGCA
AAGTTTACCAACCACTGACTGCTGCTCGGCGGCGGACGATTTCAGACGCTATCGGCATAGC
CGACACGCGGAAAGGCGCGACACACTTGCCTTGACACGCGCAACCGATGAAAGAAAT
TTTGACGGACATGAACAACGCTTCGGACAATCTAATTGCGCGTTCCGCTCTTCTCAAAC
CGGCGCGGACCGCAAACTGCCCGCGCTTCCGAACAGGCGGCTGCTGCGTCCGCGCGCA
ACTTCCGCTATCGGGCATCGATGTGCGGATTTGGTTTGGAAAACGGTTCGGGCTGTC
CAGAAAAGAAAGGTAACGGCGAGAATGATGGCGCAAAATGTTGGAACGGCTTATTTAG
CCGTTTGCACAAGATTTTCATCGACAGCTACCCATCGCCGGCACAGACGGAACCTTACG
CAACCGCTTCAACAACAGCGGCGGCTGTGCGCTTAAACCGGCGACGCTCAACAATGT
CCGCGCCCTTGACAGTTATTGGCTGGGCGACAACCGATGGCGGTGGTCTCATCATCAA
CAGCGGCGCGCGCTTTCCCTGCTGCCAGACTTGGACAACCTCGTTGCCAACACATCAT
CTCCGGCGGCGATGGCTGGCTGGATGCGAACTGATGTGCAAGAACCGCGAGCTGAAA
CAGGAAAATATAGTGGAATTAATTTAAGGGCTGCTCTAGATAACTAGGACAACTCGAT
TTTACTAATTTGTTTAAATGGAACAAGAACTTTTATCTACTGTTGTTAAACGCCATT
CGCACTCCTTTAAATACAGCTCAAAATGCGCTTTGGGAATGCCGTTAACTTGCGTAAAT
GACGTTTTCCTGATTTCCAAAAGTTCTCAATTCATTAATATGGTTTGTGCTTCGGCAA
AATGTGTGCTGTGATTGATACGAAAACGAAGTTTCAGCGAAGCTAAATGGCTAAATTCG
CGCACATCTAATACATCATAGCTACGATAACAATCCGTATAACAATACTGTCAGGTTTC
ACTTGTTCACGGATAATGGAATAAAGTAGCGGTTGAGTATTCGGTACTGTAACCGTA
TAAACCTTACCATTTCGCTTCAAAAGACCGAATACGGCGACTTTACCGGCAGCACCGCGA
CCGCGTTTGCCTTTGCGTTGTCCGCCAAAATAACTTTCATCTGCTTCTACTTCGCCATCA
AACATTTCCAAATGCGGACTGTTTGTATAAATAAGTAATCGTAAACGATGAAAATAATAG
GCTGCGGTATTTTATTAACGCTACTAAGCTGCTGCGCTTCTTGCAAGTTACACCTGCG
ACAAACAGTTCAATGAGTTTATTTGTTTATACCGCTTAGACGACTTTTCTCATAGGG
GCAACTCTAACTTAATTTGAATTTCCCTAGTTATCTAGGACAGCCCCAAATTTAAACAG
TACGGCGTTGCTTCACTTACCTTCAAGGATAAGGAGAACGATTCTCTAAGGTGCTGAAGCACCAG
TGAATCGGTTCCGTACTATCTGTACTGTCTGCGGCTTCGTCGCTTGTCTGATTTTGT
TAATCCACTATATAAAATGCGCTCTGAAGTGTTCAGACGCGATTTTGTATTTCAAAC
GGAATTACAGCCCCGCTGCCGCCCTCAATGCAGCAGCTTTGTCGGTGGCTCCCAAGTGA
ACTCAGGTTCTTTCGCGGCCGAAATGTCCGTAAGCGCGGATTTACTGTAATTCGGGCGCA
AGAGATCGAGCATTGAGCATGCTTTGGGCGCAGGTCGAAATGTTGCGGAACCTAAGG
CAATCAGTTTTTCTTCGCTGATTTTGCCTGTCGGAAGTATCGATGGAAATCGAAGTCG
GTTTCGGCAACGCCGATGGCGTAGGAACTTGGATTGGCATTTGGGTTGCCAACCTGCGG
CGACGATGTTTTTTCGACATAGCGGCGAGCGTAAGCGGCGGAACGGTCCACTTTGGACG
GGTCTTTGCCGGAAGTGCGCCGCCGCTGCGGAGCCGCCGCCGCTAGGTATCGACGA
TGATTTTACGGCCGCTCAAACCGCAGTCGCTTTCGCGGCGCGGATAACGAAGCGGCCG
TCGGGTTGATCAGGATTTTGGTTTCGTCGGTCAGCAGTTTCAGACGGCAGAACCGGTTGA
TGATGTGTTCGATTACGGCGTTTTTCAGCTCTTCGTAAGCGATGGACGGATCGTGCTGG
TAGACAGGACGAGGTTGTCGATGCGTTTTACTTTGCCGCTTTCGCTGTCGTAACACCGG
TCAGTTGGGCTTTGGCATCAGGACGAGCAAGGACGGCGCGCTTTTTCGCAATTTCGC
TTTGACGCTGCATCAGGCGGTGGCTGTAATAGATGGCAAACGGCATCAGGTTAGGGGTTT
CGTCACAGGCATAGCCGAACATCAAACCTTGGTTCGCCGCCGCTGGTTCAAGTCGATGC
CTTCGCTTTCGTTACGCTTGGGCGATGTCGGGGGATTGCTGGTCTAGTACACGCCGA
CTGCGCAGCCGTTGGCATCAAAGCCAGCTCGGAGGAGTTGTAGCCGATGCGTTTGTGAG
TTTCGCGTGCAGCTTTGATGATGCTACTTTGGGCGGTGGTGGTAATTCGCTGCCAATA
CGCAAGCCTGTGTTGACCAAGGTTTTCGCGGCGACACGTCCTTTGGGCTTTCGCGCA
AGATGGCATCAAAAATCGCATCGGATACTTGGTCGGCAACTTATCCGGATGGCCTTCGG
ATACCGATTTCGGAAGTAAACAGATATTGCTCATGAGATTTTCTTGAACCAACCA
TCTTCTTCAGACGCGATGTTGATGAACATAATGTGCAGACGGGAAATATAGCAAAAT
TCCCTATTATACCAATTCAGTTGAGTAATATCCCATTTGAATAGCACTTTGGAATCTCT
GCCCCGACGTTTCTTACAGGCAAAAAATTTCCGCGCATCAAGCGGTTTGGATTGCTCTGG
TGAGCCACATCGGCTTTTCAACCGTCCACCTTACTTTCTTTTGAAGACGAGTTGGCA
TGGAAATCCCACTCTTAATGCAGCAGCATCGTAGCAGAAAAGGCATATTGCGCAATA
CTTCCCTTTTTCAGACGGCATGTTTCGTTTACAATTCAGGCTGTTTCCCCCTTTGCGAAC
CGCCATGCACATCTGTTGACCGCCTGCTCAAATGCCTCTCCCTGCTGCCGCTTTCTGT
TCTGCACACGCTGGGAAACCGGCTCGGACATCTGGCGTTTACCTTTTAAAGGAAGACCG
CGCGCGCATCTGCTCCGCAATATGCGGCAGGCGGGTTTGAACCCCGACCCCAACGGTCAA
AGCCGTTTTTTCGGGAAACGGCAAAAGCGGTTTGGAACTTGCCCCCGGCTTTTTCAGAAA
ACCGGAAGACATAGAAACATGTTCAAAGCGGTACCGGCTGGGAACATGTGCAGCAGGC
TTTGGACAAACAGGAGGCTGCTATTATCACGCCGCACATCGGCAGCTACGATTTGGG

Appendix A

-421-

CGGACGCTACATCAGCCAGCAGCTTCCGTTCCCGCTGACCGCCATGTACAAACCGCCGAA
AATCAAAGCGATAGACAAAATCATGCAGGCGGGCAGGGTTTCGCGGCAAGGAAAAACCGC
GCCTACCAGCATACAAGGGGTCAAACAAATCATCAAAGCCCTGCGTTTCGGGCGAAGCAAC
CATCGTCTGCCCCACCACGTCCCTCCCTCAAGAAGGCGGGGAAGGCGTATGGGTGGA
TTTCTTCGGCAACCTGCTATACCATGACGCTGGCGGCAAAATTGGCACACGTCAAAGG
CGTGAACACCTGTTTTCTGCTGCGAACGCTGCTGGCGGACAAGGTTTCGATTGCA
CATCCGCCCCGTCCAAGGGGAATTGAACGGCGACAAAGCCCATGATGCCGCCGTGTTCAA
CCGCAATGCCGAATATTGGATACGCCGTTTTCCGACGCAGTATCTGTTATGTACAACCG
CTACAAAATGCCGTAACGAAAATAAAATGCCGCTGAACAATTTAGACGGCATTGTTGT
CATCTGACGATTTCCGACAGCGGGCCAGCGCGGACGGACATTGAACGCACCGACCTCCCTG
CCCTTGCCACAGTGTCATCGCACCGGCAAGGCAATCATGGCACCGTTGTCCTGTCAGTAT
GCCGTGCGCGGGAAAAACACGCTGACTTTTCGGACGGATGTTTCGGCTTGCTTTGGGG
GTGCGGATTTCACCGTCATGTTGCGGAAAGTTTACGGAGCTTGCGGTTTGACCGGACC
CCGCGCGGCGACCATACGTTCTGAACCTGTCTGCAACAGGGCTTTTTCATTTTCGCC
GCCAACACATCGACTACCGCATCTTGAACGCACGGCAGATGTCGTTGCGTGTCTGCTCA
GGAATGTCATCCGCCCGTTTTCCGCGCGCACTTTCTCGACGGCGGTCAATACGGCGGTT
TTCAAACCTGAAAACTCATCTGCAAAATCGTCGGAATGAATCATCGGGCGCGGAAAAACA
AACGCTTCGAACCTGCCGATTCCGCAAGTTCGACAGTTTCGCACCGCCCGGATACAGC
AAGCCCAGCAGTTTCGCCGTTTTGTCGAATGCGCTCGCCCGCGCATCATCGACGCTCTCG
CCCAAAAGCGCGTAGTACGCTATGCCCCGTACCGCCATAATCTGCGTATGCCGCCCGGAA
ACCAACAGCGCGACAAAAGGAAAGTCGGGTTTTTCTCCGCCAACAGCGGCGACAGCAGA
TGTCCTTCCAAATGATGGACGGGAATAACAGGCTTGTCCAACGCTAAAGCCAGCGCGTTG
GCGTAGCTCGAACC CGCAGCAGCGCGCGCCCAAACCGGGCCCTGCGTAAAGGCAACC
GCGTCAATGTGCGCATACGATGCGCTGCGCTGCGCCAGACGCTTCGCTCAACGGAAACA
AGGCGGGCGGATATGGTCGGGCTTGCCAAATTCGGGCACAACCCCGCGTATTTCGGCTGC
ATTGCCATTTGAGTGTGACGGCAGTGCGCCCGCAATCCACGTTCCGTATCGTAAAGCGCA
ACACCTGTTTCGTCGCAAGAACTCGATTCTTAATACCAACATGGTCTGATGCCGTTAA
AAACTGAAAAACGTATTTTAGCGGATTTCGGCACGACTGCCGTATCCCAAAAACGGAACA
TGCCGCTGTAAGACCGTTTCAGACGGCATCGTCGCACCGTATCAAAGCGTTCCGTAAAGAT
GCAGCCCGCTCAAAAACATATTCAGCCGATAAAGGCAATGCGGTTACGAACAAACCGA
TAATCGCCCGACCGCCAGCACTTTGCCGCGCAACCGGCAACCGCCGCAAGTGCAGCC
AAACGGGTAATTGAGCCAGACGATGAACGCCACGCTCTTTTCGGATCCCAACTCCAAT
AGCGTCCCCAAGCATCTGCCGCCACAGCGCACCCAAAATGGTGGCAATGGTAAAGAAACA
GAAAGCGACGGCAATCGCCTTATACATCACCTCGTCGATCAATGCCGACGGCGGCGAGCC
ACAGTTTTCCGCCTTTTCTTCCGCACGCAGGGAACAGTTTCGGCAATACCGAGCATCG
CGGAAATGCAAAACCGCGCGTAACCGATAAAGTTTGCCGGAACGTGGATTTTCATCCACC
AGGACTGGAGCGCGGGAATCAGCGGCTGGATGGTATGCGCCTCGCGGGACACGCTGTACC
ACAAGACAAATCCAACACGACCGCCATAAAGCCGAACACGAAGCCGCCCAATTTCTGTA
TGGCGAATTTACCTTCATATAAAGATACATCAGCGCGGTAAATCACCAAAACAGGATGA
ACACTTCATACAGGTTGGAACCGGAATATGCCCCGATCGGGACGGAGCAGATAGCTTT
CGTGCCAAACGTACGACGACCGGTAAGCCGTGCTACGGCAGACACCCATGCAAAACCG
TTCCCATACCCAACAGCGTGTGTTGCTCGGCACATTTTTTACGCTTGCCAAAACCGCGCCG
AAATATAGGCGAACAGGGCGAAAAAGACAAGGCGCACTGCCACATGATCGCCGACTGGC
TGCTGAGGAAATACCGCAACGAGGAAATCTCTGCCGATTGATGTGCGCTCCGTACAAC
CGACGGCGGCATAGGCAAGCAATACGCTTAAAGGAACAAACCGCGCATCGGTTTGAAAA
ACCAACCCAAAACACGGCAATACCGGCACTTGCCCAACAATGACCGTTTCGTAAATGT
CCATATGCATACCGGAACGGGTCTGTACGAAAACCGTAGCCGCAAAAACAGCACGGCAA
ATACCCAAATCCCAAGATTCAGATTGCTGATCAAAGACTTCTGAATCAGCAGCTCGTGT
CCGGAAGGGTTTTATAGTGTTCAGTCATGATTCAAGTCCTTGCCGAGCCGTGACAGACTC
TCGACGTGTTTTGGAAATTCCTTCTGCAAAATCCCGTTGCGTGGCGGCCGAAGACATGGCA
AAACGGATTTTCGCGTCTGAAACAATAACCCAGCCCGTTTTTCGCGCACATAAAACATC
AATACCGTACCCAATACCAACAGCACCGGAGCCGAGATAGACCAAAAGCGCACCCGGGGAA
CGGGTCATCTGCAAAACCGACGAACGCACCTCGGAAAACCCATCAAGTTGCAGCAGCATA
GGCGCGGGATATCGGTCAAACCGGTGTACGCATCCATACTGTGCAGCAGGAACGATTTC
CGCGCTTCATCTCTGCTGCAATTCGGGCAAGCCGTACCGGCGTATGGTTTCATCCAAAGCA
GCGTTTCATCAGCGCGTAAGCATTTCGTAGAAATAGCCCTGCATCTTATCTGCTGCTCT
TTCGGGATATTGGACGTAATAAATTCGTCCAATCCCAATAGCCTTTTTGTGCAAGATG
TTCAGCGTGTTCGCGACGCAGCATGAATTGTTGCGCGGATTTCGGCAGGTGCGCCTTTG
GTTGCGTCGGCAACCGAGCGTTTTCGCGCCTTCCCATCTTTCAAAAACACGCAATGCC
ATAAAGTGTCCGCTTTCAACTGCTTGTCCAAGGGGATACGCAGCCAGCGGTATTGCTGC
TGCAAGCCGCTGCGCGTGCCTGTAATCCAAAATAATCCTGTTCTGCAAAACCGGCAGC
ATATAGTTTTTATATTGACCGCCTGCCCTGCCGCATCACGGATACGGTAAACAATGGAA
GGGCGGATATTGTTGTTATTTTTACCTTCTGAGTAACGGCGCGGACATCGTTACGCGTG
GATTTACGGCTTTTTTCCGCTTCGCGCCCTCGCTCATGTCTCCACATTCATAGAAGTG
AACTGATCGAAGTCAAGACGATATTGTTGTTGCAATTTCCAACGGAACCTGGTGATG
GATGTTGCTTCAACACGACAGGCTCGCGCGAAGCATACCCAAATTCACGCCTTGAAT
GTCAAATCCGAACCGCGCTCGGCAAACTCGCCTGATAAATCGTGATGCCGTGCAAGGTC
AAAGGATGGTTTCACGCGGATGGTGCCTCGAGTTTCTCACCGGTTGCCCTGTCCGTCACT
TCAATATCGCTGGCGAAATCACGCGGCATACCCGTATTGTAAAAATCGATATGGAATTTT
TTCAGTTTGACTTCAAAAGGCAAGTCTGAACCAATATCCCGTTGTGCGGATTCAGGAAA
ACCACATCCGCACTCTGCCCTCGGAAATATTGACGTTGCCCTAAATGAGAGATTGGAC
GCACCCAAAATACCTTTCGGGCTTGAAATCCTTGGCATAAACCGCGCTGATTGTCCGGAACA
ATCCGACCGGTGAGCATACCCAGTTTCAACAGCAGGTTACTGTCTATCAACCCGCCAGG
CAAATGACAATCAAAGCAACATGGGCAAGATATAGCCCCATTTGTTTCATTGTGCTTTTT
TTGGCGCAATCAGAACCAGCCGCTTTCACGGTAAATGGTTTTTCCCTGAAAACCTTGT

Appendix A

-422-

ACTTCCAGATAACGTTTGGCAACCTCGGGCGCAATTTTACATCCAACAGCGAAGAATGG
CGCATCGCCGCCAGAGATTTTCTTAACTTTTCCCGAAAAGACTTCATTTCGCGCCAG
AACGGCGGCACATTGCGAATCGGACAGGCACAACTGGTAGAAACCACCAAAAACATCATGATA
ACGACAAAACCATGCCGAAGCATAGACGTCATACAGTCCCAGAAAACCAAAAATCTGCGCC
CAAAACGATCCGAATTTGACCAAAATAATCCGTCTGCGGCTGGTTTTGCTGCAACACCGTA
CCGATAACCGATGCAATACCCAGCAGACTGAGCAAAGCGACTGCAAAGCGCATGGAGCTG
AAAAAAGCGAACCCAGGACGGGAAAGAGTGGGGGAGATCTACGGGATTTACTCATTGTG
TGTTTTATTCCGCCATCAGGAATATGGGAAAGCAGAATTGGGCAAACAGAAAACAACGTCC
CGATTCTACTGTCTTGATGCTTTTTATTCAAGACAATGAAGACAGCCTGCATCGATTCC
AACGTTTGGGATTGAAAAAATTTATCGCAGAATTGCTGAAGCCGTCTGAAAACTTTCA
GACGGCCTCTAAAAACAGACTATTGCGGAATTAACGCAAACCTTGGATAAAGTTGGCGACC
GCTTTCAAAATCTTCTTCAGACATACGGTTTGCAATATCTTCCATGATGGTATTTTTACGC
TGACCGGACTTTAGGCATTCTGTTCAACAATATATGCCTGATGCTGACCGCCCAAA
CGCGGATAAGCCTGAATTTGCGCTTCCGCTTCCCGCATACCCGACCGCTCGGACCGTGG
CAGGACATACACGCCGGCACTTTTTATCGCTCAAAACCGCGCGATAGATTTCGCACCC
AATTCGGGATTTTCCTTAGGATTGGCTTACCAGGATTGGGCTGCTGTTGGCATAGAAT
GCGGATACGTTCAAATATCTGATCGCTCAAATTCATTACCAACCGGTTTATCACAGCT
GCCGAACCGTGGGTGCGTTTACCCTGCGGGATGCCGATAGTTTGATGATAGATGTAAGCA
GTATGCTGTGCCGCCAAACCGCGGATACATCGCAATGCCGCTGTTACCGTCTGCTGCATGG
CAAGCCGCACAAACCGTTGCGGCAACCTGTTGCTTTTTCCACGCTGCTTGGGAGAG
GCGGAAACCGCACCGCGCAAAACAAAGGCCAATAAAGTCAATCGTTTCATGGAGTGC
TCCTGATTACAGCATTGGATAACGCAACAATGCTCTTTTTATATTCAAATACGGGATTTT
TGACCGGATTAACACGATGATTCTGTAACGCTGTTATTCTATACTAAATTTACATTAAA
TTACCACTGTGTTTACATATAAACCACCAACCGCATATTTTTGCTGTCGGACAAACGGCGG
GAAAACAAGGATATGCCCATGAACCTTTTTCAAACGCCAAATCTTCACGACGATCAAC
CACCTTAAAGACTTGCCGACACCCCTCTCGAAATTGCTTTGTCGGCAGGAGCAATGCC
GGAAAATCCAGTGCCATCAATACCTGACCAACCATGTCGCTCTTGCTACGTTTCAAAA
ACACCCGGACGGACGACGATATCAACTTCTCGAGCTGCAGAACGGCAATTTATGGTC
GATTTGCCCGGTACGGTTATGCCCAAGTCCCGAAGCAGTACGCGACATTTGGGTCAAT
CTGCTCGGCGACTATCTGCAACAGCGCAACAGCTTATCGGGCTGGTTTTGATTATGGAT
GCCCGCCATCCTTTAAAGAACTCGACATCCGTATGCTGGATTTTTTCCACACGACCGGC
AGACCGGTTACATCCTGCTGTCAAAGCCGACAAATTATCCAAAACGAACAGATAAAA
ACCCTGTCCCAAGTCAAAAACTGCTCAAACCTTATCCGACAGGCAAAACATCAGCGTA
CAGCTGTTTTCCAGCCTGAAAAACAAGGTATTGACGAGGCCAACCGAACTGTGGAAGC
TGTTTGGACGACGAGATGCCGCGCTTCTCTCCAGAGGAAAACGACCCCAATTATAC
GGAAACCGTATTTCCCGCACTTGACCGACCGCAACATTTAAAAAATTGCCACTGCCAAA
TCTAAATGCCGCTGAAAAGTCTTTCAGACGGCATTTTGCGGAGTCTTTAAACAGAGA
ATCCAATGCTGCTGTTTGGGAACAGTATTACTCGGAAGCAGCGGCTTCTGCTGATATC
TTGGCGGACTTCTGCTATCCGCGCTGCGCTCCGCTTCTGCCGCGCCCCGCTCATCTTC
TTTTGCCCGTCGGGAAGGTTGCGGCGCAATACCGCTGTTGTCCAGCGTCAAGCCCGGATC
GGTTACCATACGCTTCTTCAATATAGTATTGCGCATGCTGCTGACACACCTTCAGGCAT
TTTCATCCCCTTGCCCTGCTTTCCCTTCAACGCAAAACGCATATAGTCCACCCAAACCGG
CACCGCAATCGTACCGCGTAGCCGACACGCCCATACTCTTAGGTTTGTGGAAGCCGAT
ATATACGGCAGTAAACCATCAGGGTTAAACCGCAAAACACGATCCTTATTGTCTATT
GGTCGTACCGGTTTTACCGGCAATATCCGTTCTTCCCAACGAGCTGCCCGCTTGCCGT
ACCAACACGGACACATCTGCATAATCTTATACATAATATAGGCATTGCGCGGATCGAT
TGCTTGAGGCGCATTTTGCCAGCCACCAAGGTTGCATTTGGGCGCGCAACCTGCCGTC
TCTGTATATAATCTTATGATTACGTGCGAAGAAACCTATATCCGCGTTGCAAAATAC
GCTATATGCTCCGCCACTTTCAACGGCGTGTCTCGCCGTACCTAAAGCCATAGACAG
GCTTGCCGGCAGCTCGGACGACCTGAAGCCGAAACGCGGATATACTGTTGCGCGTAACC
GACACCGATGACATCAAAATACGGATGGAACCATATTCTTGAAGCCGTGAGAGCTG
TCTCAAAGTAATGTAGCCGAATATCTGCGCTGTAATTTTTAGGTGTCCAAACCGAACC
GTTCCGCCCTTTCCCGCGCAGGGAATCGCGCATCGTTAACCACTGTGGACGCGGTCTAT
CCCCTTAGATAATGCCGCCGAATAGACAAACGGCTTAAAGGTCGAACCCGGCTGCCGCT
TGCTGAAACGGCACGATTGAATGTTTTGCTGTGAAAATCATAACCGCGACGACGCGCG
CACAGCTCCGGTTTTTGATCCAGCGAAACCAAGCCCCCTGCAGCAACGGCTCTTGAAC
CACCGCCCAACGCCCGCTTGTTTTTGACACGGATGACCGCGCCCTGCGGATACGGTC
CTCCCCATTTTTTCAATTATTGACCGCGCGGGCCGCAAAACCAAGGCGCGCTGTCAAG
CGTAACCCGCTGCGCGCGGCGAGCTGTATGACGACATTTTCTTTTTAGTCACATCCAA
CACACGGCGGGAACCATTTTATCGACGGTATAGAGTCCCGACAGATACTGGCTGACAGT
CTCCTCGACATCTTACTCTTACTCAAATCGATATAGTTTCCGACCGCGGTAGCTGCT
GCCGCGATCGAAATCCGTAGAGCCTTGCGCAATGCCTCGGTTGCCACCTTCTGATGATC
GGCGCGGACCGTGGTATAAACCTTAAACCTGCGTATAGGCATCTTACCCTATTCTC
ATACAGTTCTGACGCACCATTTCCGCCACATATAACGCACTCTGATCGATTTTCCGAAC
AAACCGCTCGTAATGCTTCTTCAACGCGCTGATCGCGCTGTGACGCGTAATCAT
CTTCTCTCGAGCATATTGTTCAAATATACTTCTGGCGCACTTGGCACGTTCTGGATT
AACAATCGGATTATAGGACAGCGAGCCTTGGGCGAGTCCCGCAAGCATGGCGGCTTCCGC
CAAAGTCAAATCTCGGACATCTTATTGAAATAGATTGCGCGCGAGATGCAAAACCAT
GGCGCGCTGACCGAGGTAATCTGATTGAAATACAACTCGAGGATTTGTCTTTGCTTAA
AGACTGCTCGATTTTATAGGCAAGCAACCTCATTTGAATTTGCGTGTGAACGTTTTTTC
ACTGCTCAAATAAAAAATTTTTCCGCCACCTGCTGCGTAATCGTACTCGCACCCGACTGCAC
GCTGCGGACGACGACATTGCGGACGGCAGCGCGGCAACACCCCAACATCCACCCCA
ATGCGCGTAAAGCGTTTATCCTCGCGCGGATAAACCGATTCCGCAACACCTCTGGGAA
ATCGCGGATTTTTGTAAATTCGCGCGCTGCTCCCCATACATACCGATGACTTCCCATC
CGCGAATAAATAGTCAACGGCATTTTAGGCTGGTAATGCTGCAAGAATCCAAAGACGC

Appendix A

-423-

CAGTTTCGGATACGTTACCAAAATAGCAATGGCAACCAACCCACTCCAAATACACAAAA
CCCCAAAACCAACCAAAACAAGTCGTTAAATCTTTTTAATCATAGCTGAATAATAATT
TACCATTATTGGATTAAATAAAGTAAATAGCAACCGATTCTACAAAGCAGCGTTTCA
ATGTGCAAGAACAAGGAATCCATTACGGATACCGAAACGGTTACTCACTGTACAAATAA
AGCAGGAACTTTCATCATGCGCTTGTTTAAAGCTTGAAAAACCCCTAAAAAACAGATGC
CAAGCTCCCTAAAAAATCTTCGGGACTCAATAACCGCGCGGCAATCGGCATCGATATCGA
CCAGCATTCATCAAAATGGTCCCAATTGTTCAGGACGTAGTTTAAACCAAAATCAATTGGA
AAAATACGTCATTGCCAAATTACCAAGAATATCATTTCAAGGCAATAAAGTCCAAAAATTA
CGATCAACTTGTACATATTTGCAACAAGCCTATGCCAACTGGGTACTTCGTGCAAAAA
CATCATCGCTCCGTCAGCAAGAACAGCTCAACCAACTCATCCAGCGCACCTATCAGGTAACAGA
AGATGCAGAATTAGACCTGCAGGGGTTTCGTGGAGTCTCCATCTCCGAAGTCAGCTCGAT
ATCGCTCGAAGAAGCCAATTACGACTATCAGGTCTTGTCCTCAATCGGCGCGCGGCAAGC
TGTGTTGGCCGTCGCATCGAGAAAGGATGAAATCGAACCCCTGATTGACGCATTCAACGC
CGCGGTTATGAAATTATCCGCGCTTGATGTGGACATTTTCGGACAATACAACGCCCTACGC
GCTATGGATAAACCATTTTCGCCCCGAGCTTGCAGCCGAAAAAGTCGCCATTTTCGGCGT
ATATGCCGCACAGACCTACGCCTTGGTCATCCAAGACGGAAAAATCCTATACAAACAGGA
AACCTCCGTTCAGGCAAGAACAGCTCAACCAACTCATCCAGCGCACCTATCAGGTAACAGA
AGAAAAAGCGGAAGAAATCATCAACTCCCGCAAAAACCTTCGGATTACCAAGAAAGCGT
GGCAAACTATTTCAACAGCAGATTACCCAAGAAATACAAGGGTCTTGCAAGTTTATTA
CACCACGACAGACGACATGACCGACATCAAGCATATCTCTGTGACCGGGGAAGC
GGCGCGCCAGGAAGGCATCGCCCCAAACCGTCGCCTCACAACCAATGCAGATGTACAATG
CGTCCATCCCGCGCGTTATTTTCGGGACAACCTCAAAACAGACAAACAACATTCGAAC
TGATGCGCGGACACTGACCAAGGCGTTTCGGTTTGGCGGTACGGGGATTATAATTATGAAC
AATTTAATCAAAATCAACCTCTCCCTACAGGGAAGAGATGAACAAGCGAAACAGCAG
CAGTTTAAACGCTGATGTACGGTGCCGTGCTGACGGCGTTGCCCGCGTTGCCGCAACC
TACCTGTTTATCGACAATATGATCAATAACAGTCGGAAAGAAACAGCTGCTGGAACCC
TCCATCGCACACTTGGATTACCGAGCTGTTCGGAATACAAAAGCTCAAAACAGGAAAAAGAT
GCCTTCCTGATTAAAGAAAAACAAATCGAGGAGCTCCAGCTCAACGCCTCCAAGCCGCA
AAAATCCTCGACAGCCTGAATGAGGCCGTCCCGGAAGCACCTACCTGACCTCGCTGGAT
GCCGTTACCGCCGACTCTTATCGGCTCAGCGGCAGGACATCCAGCGACAACCGCGTTGCC
GCCATGATGAGGGCGATGCCCAATACCGGCATATTCAAGCAACCCGAATTGTTAAGCATC
AAGAAAAACAATTTCGCATCAAGAATTTACCTTCAGGCAACATTACAACCCATCGTAAAG
GCGGCCGAATCCAAAGAGAATCCGGCTTCGGGAAACGCACAGGAGGCAAACTGAATGGCT
TCTAATCATCTTAAACCAACTTGGATCTCAACAACCTTACCTGCTCAACCTTCTTGCC
AGGCTTTTTATCGCCCTGCTGGCCGTGCGCCCGTCTGCGGCTCGGTTATGCCGGATTG
TTCAAAAGCCAGATGGAATCCCTTGAGGAATACGAAGCAAAAGAACCCGAATGAAAAAC
ACCTACAACACAGAAAGTATGATACCGCGCAGCCTGAACAACCTGAGGGACGAACCTGCC
TCAATCCGCTCTGCTTCGATATCATGTTGAAACAGCTGCCGACAGATGCAGAAATTTCC
AATCTGTTCAAGAGCTTCATCAGGCAGGTTTCGAGCAACGGTCTGCGCTTGACAGCGTT
ATGCCCAACCTCCCGTAGATGACGGCCCATCAAAAGATTACCTATTCCATTTCATT
ACCGGAATTTACGAACAGATCAGCCAATTTACCGCGATGTGCGGAGCTCTCCCGAATC
ATTACCTTGAGTCGTGAAAATCGCCCAATCTCCGGAACCGCGGCAATCTTGACGGC
AAGAGCAGCATCTGAACCTCAGCGCCATTGCCACCACTACCAAGCAAAATCCGTAGAA
GAGCTTGGCGCAGGAAGCGGCAAAAATGCCGAGCAAAAATAAAGTTACGTTAGGGAAACCA
TGAAACACTATGCCTTACTCATCAGCTTTCTGGCTCTCTCCGCGTGTTCCTCAAGGTTCTG
AGGACCTAAACGAATGGATGGCACAACCGCAGCGGAAGCCAAAGCAGAAATCATACCTT
TCCAAGCACCTACCTGCCGGTTGCGCCGGTATACAGCCCGCGCAGCTTACAGGGCCGA
ACGCATTGCACTTCCGCGCATGGAAACCGACAAAAAGGGGAAATGCCCGGACACCA
AGCGTATTAAAGAAACGCTGGAAAAATTCAGTTTGAAAAATATGCGTTATGTGCGCATTT
TGAAGTCCGACAGAAAGTCTCCGGCTTCATCGAGGCTGAAGGTTATGTCTACACTGTG
GTGTCGGCAACTTATTGGGACAAAACTACGGTAGAATCGAAAGCATTACCGACGACAGCA
TCGTCCTGAACGAGCTAATAGAAGACAGCACGGGCAACTGGGTTTCCCGTAAAGCAGAAC
TGCTGTTGAATTTCTCCGACAAAAACACCGAACAAGCGGACGACCTGCCGAGAACAAA
ATTAAGAAGAGGATTACTCCATTATGAATACCAACTGACAAAAATCATTTCCGGTCTCT
TTGTCCGAACCCGCGCTTTCAGACAGCATCGGCAGGAAACATTACAGACATCAAAGTTT
CCTCCCTGCCCAACAAACAGAAAAATCGTCAAAGTCAGCTTGACAAAGAGATTGTCAACC
CGACCGGCTTCGTAACCTCCTCACCAGCCGCGATCGCCTTGAGCTTTGAACAAACCGGCA
TTTCCATGGATCAACAGGTATCTGAATATGCCGATCCTCTGTTGAGCAAAATCAGTGCCG
CACAAAACAGCAGCGCTGCGCGTCTGGTTCTGAATCTGAACAACCGGGCCAATACAATA
CCGAAGTACGCGGGAACAAAGTTTGATATTTAATCAAGATCGGACGATACCGTGTCCG
CCCCGTCAGCCCGCGCTTAAAGCCGCGCTGCGCACCGGCAAAACAACAGGCTGCCG
CACCGTCTACCAAGTCCGAGTATCCGTATCCGAACCTTTACCCCGCAAAACAACAGG
CTGCCGACCGTTTACCGAGTCCGTAGTATCCGTATCCGACCGTTTCAGCCCGGCAAAAC
AACAGGCGCGGCATCAGCAAAACAACAGGCGGACAGCAGCAAAACAACAGGCGGCAG
CACCAGCAAAACAACAGCGGAGCAGCAGCAAAACAACCAATATCGATTTCGCGCAAG
ACGGCAAAATGCCGCGATTATCGAATTGGCTGCATTGGGCTTTGCCGGGACGCGGACA
TCAGCCAAACAGCAGCACATCATCGTTACGCTGAAAAACCATACCTGCCGACACGC
TCCAACGCAGTTTGGATGTGGCAGACTTTAAACACCGGTTCAAAGGTTACGCTGAAC
GCCTCAATAACGACACCCAGCTGATTATCACAACAGCCGGCAACTGGGAACCTGTCACAA
AATCCGCGCGCGCGGATTTTACCTTCCAAGTCTGCCGAAAAACAACCACTCGAGT
CAGGCGCGGTGAACATCGCCCAAAACCTTCACAGGCGGAAATCTCCCTTGACTTCCA
AGATGTGAAATTCGCAATTTGGCAAAAGAAATCCGGAATGAACATTTGTT
GCCAGCGACTCGGTCAACGGCAAAATGACCTCTCCCTCAAGGATGTGCTTGGGATCAG
GCTTTGGATTGGTTATGCAGGCGCGCAACCTCGATATGCGCCAGCAAGGGAATATCGTC
AACATCGCGCCCCGACGAGCTGCTTGCCAAAGACAAGCCCTTTACAGGCAGAAAAA

Appendix A

-424-

GACATTGCCGATTGGGTGCGCTGTATTCCCAAACTTCCAGTTGAAATACAAAAATGTG
GAAGAATTCCCGAGCATCTGCGTTTGGACAATGCCGACACGACCGGAAACCGCAACACG
CTTATCAGCGGCGAGGGCAGCGTGCTGATCGATCCCGCCACCAACACCTTGATTGTTACC
GACACCCGAGCGTCATCGAAAAATTCCGCAAACTGATTGACGAATTGGACGTACCCGCG
CAACAAGTGATGATTGAGGCGCGTATCGTCGAAGCGGCAGACGGCTTCTCGCGCGATTG
GGCGTTAAATTCGGCGCGACAGGCAAGAAAAAGCTGAAAAATGATACAAGCGCATTCGGC
TGGGGGGTAAACTCCGGCTTCGGCGGCGACGATAAATGGGGGGCCGAAACCAAAATCAAC
CTGCCGATTACCGCTGCCGCAACAGCATTTCGCTGGTGCGCGGATTTCCTCCGGTGCC
TTGAATTGGAAATTGTCCGCATCCGAATCGCTTTCAAAAACCAAAACGCTTGCCAAATCCG
CGCGTGCTGACCCAAAACCGCAAAAGAGGCCAAAATCGAATCCGGTTACGAAATTCCTTTC
ACCGTAACCTCAATCGCGAACGGCGGCAGCAGCACGAACACGGAACCTCAAAAAAGCGGTC
TTGGGGTGACCGTTACGCCGAACATCACGCCGACGGCCAAATCATTATGACCGTCAAA
ATCAACAAGGACTCGCTGCGCAATGTGCCTCCGGTAATCAGACGATCCTGTGATTTCG
ACCAAAAACCTGAATACGCGAGGCTATGGTTGAAAACGGCGGCACATTGATTGTGCGCGGT
ATTTATGAAGAAGACAACGGCAATACGCTGACCAAAAGTCCCGCTGTGGGCGACATCCCC
GTTATCGGCAACCTCTTTAAAAACACGCGGAAAAAAACCGACCGCGCGAACTGCTGATT
TTCATTACCCCGAGGATTATGGGTACGGCGGCAACAGCCTGCGCTATTGATGCGTCAAA
ATAAGGCGCATATGTTTTACGGCATATGCCCTTTCTTTATGCTTTTTGCGCGACCGAAAT
GCCGTCATTCCCGCGCAGCGGGGAATCCAGTCCGTTTCAGTTTCGGTCAGTTTCGGTCATT
TCCGATAAATTCCTGTGCTTTTCTATTCTGGATTCCCACTTTTGTGGGAATGACGGCGG
AAGGGGTAAATCCTCACACCCAAAGCCTCGTCAATTTCCACAAAAACAGCAACCCGAAA
CAGCAACTTAAACCCCGTCATTCCCGCGCAGGCGGGAATCTAGGTCTGTGCGTTTCAGGA
ACTTATCGGATAAAACGGTTTCTCCAACCTGCGTTCTAGATTCCCACTTTCTGTGGGAAT
GACGGGATATGGGTTTCGCTGCGGACGTGTTCCGATTTCGCGCTGCGCGGGAATGACGGC
GACAGATGCCAACCGGTCTTTATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAGCC
GCAGACGATCAAAATAGTACGGAAACCGATTCACCTGGTGTTTCAGCACCTTAGAGAATCG
TTCTCTTTGAGCCAAAGGCGAGGCAACGCCGTACTGTTTTGTTAATCCACTATAGTATT
GATAAATCATATTCTTCAATATATTCAATTGGATAATTGTTTACCTAAGCAAAAGATAAT
TGCCTTTTCTGACAAATAAGTGAAATCAACGGATTGTCAAAACACAGCCTGAAATAAAA
AACCTCCCTGATTTCTTTATTTGTCCTTAAATCAGAAAGGTTCCGGATGGTTCGGGTTA
TTTTTCCAAACGTACCGCGCCCTGCGGATTTCGTATAAAATTCGCCGTAAACCGACAA
GCCGAAACCTGTGCGCCCGAAAGCGGGGTGTCAAACATTAAGGAATTGTGATGAAAAA
CTTTAACGGCAAACTATCCTCATCGGACTGATGGGCGCGGGCAAAACACGCTGGGCGG
GCAATGGCGCAGCGGCTGGATTACCGTTTTACGACAGCGATCAGGAAATCGCCGAGC
CGCCGCGGTTCCTATCCCCACCATATTTGAAATGGAAGGCGAACAGGGATTCCGTTGCGG
CGAAACCGCATACTCAAAAAGCTGGTTATCCTGCCCATATCGTCTGTCCACCGGCGG
CGGCGCGGTGTTAAAGAAGAAAAACCGCGCCCTTATCCGCAAAAGCGGCACGGTCGTCTA
TCTGACGCGCCCGCCGAAACCTGCTCGAACGACGCGCTGCGACAACAGCCGTCCTTT
GCTGCAAGTTGCGGATCCTTTGGCGAAATTACGTGAACTCTACGCCGACGCGACCCCGT
TTACCGCCAAACCGCGACTTTACCGTAGAATCGGCAAACTGCGGGGAAACCGTGCAAAAC
CCTGTCTAAACGCTTATCCGATAAAACCGGCATATGCGCCGCGGCCAGAAAACCAACCG
CGCCCGCGCGGCGGGCGCGGTTCAAACCTTTAAGGAACAACAATGAAAACACTGACCG
TACACACCCCGTCCCACAGTACCCCATCTTTATCGGCAACGGACTGCTGCCGACGGCAG
GAAGCCTGCTCAAACCGCATTTGGGCAAAACGCGCGCATCATCGCCAACGAAACCGTCTG
CCCCGCTCTACCTCGGCGACGCTTCAGACGGCATTTGGATGCGGCGAGGCGTATCCCATTTCA
GCATCATCTGCGCGACGGCGAGGCGCAAAAACTGGCAGACGCTCAACCTCATCTTTG
ACGGGCTGATGCAAAACCGCGCGGAACGCAAAACCAATTAATCGCACTGGGCGGCGGCG
TGATCGGCGCATGGTTCGGCTTTGCGGCTGCCACCTACCAGCGCGCGCACCGTTTCGTTT
AAATACCGACCACGCTGTTGAGTCAGGTCGACTCATCGGTGGGCGGCAAAACCGCCATCA
ACCACCGCTCGGCAAAATATGATTGGCGCGTTTTACCAGCGCAGGCGGTGCTTGCCG
ACTTGGACACGCTGCACACCTTGCCTGCCGCGCGAATTGTCGCGCGGTATGGCGGAAGTCA
TCAAATACGGCGCGCTCGGCGACATCGGCTTTTTTGAATGGCTGGAACAGCATATGCCCCG
AACTGATGACGCTCGATCGGGAATACTCGCCCAAGCCGTGTAACCGTGTGTCGCAAAATGA
AGGCGAGCATCGTCGCCCAAGACGAAACCGAACAGGGCATACGCGCATGGCTCAACCTCG
GACACACCTTCGGACACCGCATTTGAAACCGAGATGGGTTACGGCACTTGGCTGCATGGAG
AAGCCATCGCGCGCGGCTGCGTGTGGCGGCGGCTTTGTCCGAACAACCTGGGCAAAACCT
CCGCGCGAGATACCGCGCGGCTCGCGGCCCTGCTCGAAGCGCGCGGACTGCCGTCCGCGC
CACCCGTGTTTGCTTTTGAATAATGGCTGGAACACATGAGCCACGATAAAAAAGTCAGCG
GCGGCATCATGCGCTTTATCGGTCTGAACCGGCTGGGCGAAGCCAACATCACCGAAATTA
CCGACACGGACATCCTCCGCGCACCTGCAACCGTATCTGTATTCTCTGCGCATGT
GCTGCCGCGCGGTTTGACGACGATGATGATTTTCCATCATCTTTCTCCGCAAAAGCGG
GAATCCAGTCCGTTTCGTTTCGTTTCGTTTCCGATAAGTTCCCGTTGCTTTTCTATTCTAG
ATTCCCACTTTCTGTGGGAATGACGGCGGAGAGGTTTTTGTGTTTCGGGAGAAGTTTCTGC
AACCTTAGAATCTCGTTATTTCCACAAAAACAGAAAACCAAAACAGCAACTTAAACCT
CGTCATTCCCGCAAAAGCGGGAATCCGGTCCGTTTCGGTTTCGGTCTTTCCGATAAATTC
CTGCTGCTTTTCTATTCTAGATTCCCACTTTTGTGGGAATGACGGCGGAAGGTTTTGGT
TTTTTCCGATAAATTTCTGAGGATTGAAATTTCTATAGTGGATTCAAAAAATCAGGACA
AGGCGAGAAGCGCAGACAGTACAGATGGTACGGAACCGATTCACTCGTGCTTCAGCAC
CTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGACAACGCGTACCGGTTTTTGTTCATC
CACTATAACAGCAACCCGTGTCGCGCTCATTTCCGCAAAAGCGGGAATCCAGTCCGTTCCG
TTTCGGTTCGTTTCCGATAAGTTCCCGTTGCTTTTCTATTCTAGATTCCCACTTTCTGTTGG
AATGACGGCGGAAGGTTTTTGGTTTTTCCGATAAATTTCTGAGGCAATTGAAATTCAG
TTCCCGCTGCGCGGGAATGACGGCTCAAAGTTACGGAACGAAAAACAACCAAAACCGG
ACAAGTCGGATTCCCGCGCTGCGCGGGAATGACGGAATCTTAAGTTTCCGCTTTGTTTTT
TGTTTTCTGTTTTTCGAGGGAATAATGGGAACAAGCCGTATTTTCAGACGGCATTTTCAGT

Appendix A

-425-

TCGGGGTATAATCCGAATACTTGGGACCATCTGAATCATTGGGACAAACCATGTGTCAAC
TGCTGGGCATGAAGTGAATACGCCGACCGATATTATGTTTTCCTTGAAGGCTTCCGCC
GCAGGGGCGGCATTACCGACCACCATGCCGACGGTTTCGGTATCGGCTTTTTCGAAGGCA
AAGGCGTGGCCCTGTTCCACGACGACAGCCGAGCGTAAATTCCTCCGTCGCCGACCTCG
TGCGTGCCTACCAATCAATCGGAAAACGTCATCGCACATATCCGCAAAGCATCGCAAG
GACAAACCTCGCTGGCGAACACCCATCCCTTTATGCGTGAAATGTGGGGCGGCTACTGGC
TGTTTGGCCACAACGGACATTTGATGATTTTTTCCCGAACAGGGCGAATTTTCCACC
CCGTGGGCACAACCGATTCCGAACGCGCTTCTGCCACATCCTCAACCGCTGCGCACC
GCTTTGCCGCCCCCTCCCGACGACGACGCTGTTTGACGCGATTGCGGGGCTGACGACG
AAATCCGCAAGTTCGGGCTGTTTAACTTTATGCTTTCAGACGGCATTGCCCTGTTTGGCC
ACGCCAGCAGCTGCTGCTACATACGTCGCCCAAGCCCCGTTTCGCAAGGCGCGCTGC
TCGACGACGACGATGATGCTGATTTTGCCGAAGTAACACGCCCTCCGACCGCTGCGCG
TTATCGCCACCCTGCCACTGACCCGCGACGAATCATGGTCCCACTTGCCGTGGACGAAC
TGGTCATGTTCCCGGAAGGCAACATCGTCCGACGACGCGTCCCGAAAACCCGCTCTATA
TGAGTGCCGAAGAAGGCTCGAAATCGCCGCGCGCGCGCGCTGCGCGTCTGAATTCAG
ACGACATAGGAGGACGAACCCGATGAAATGCCCGTTTTCGCGCCACCCGACACCCGCGT
TGCGGATTTCGCGCTGATGAAAGAACGCAACGCGCTGCGCGCGCGCGCGCACTGCCCAA
CTGCGGCAAAACGCTTCGGCAGCTCGAAACCGCGCAACTCAAAATGCCCGCGCTCATCGG
TCCGGACAAAAACGCTCGCCCTTAATGCACAACGCCCTCCGCAACGACCTGACCGCGC
CGCCCGAAAATCCGCCCTGACACCCGAACAGATCGACGAAACCGTCCGCCCTGACGGAACA
CAGGCTCTACACTTCGGGTGAGCGCGACATCCCTCTGCCGCACTTGCCGACATGGTGCT
AAAAGAAGTCTCCGACAAGATACGGAAGCGCGCTCCGTTTCGCCGCCCTGCACAAACG
CTTCGCAATCCGGCAGACTTTGCTCGTGGCTGGCGCAAGCGCTCAAAACAGGCGGCAA
AGCCTGATTCCCCCAACCATATGATACGGTATCCCTATGTTTTCGGACACAGATATAT
CCATGATGGAACGCGCTCCGACTTGCCGCTTTGGGGCGTTTTCCTACTTCGCCCAATC
CGCGCGTTCGGCTGCGTTATCGCACACGGCAGCCAAATGTGCGGCAAGGCTTCCACGTCA
AAGCGGGCGAACCCCATGCCGAAGTCCACGCCCTGCGTCAGGCGGGCGAAATGGCACAAG
GCGCGACCGCCCTTGTATACCTCGAACCGTGCAGCCATTACGGGCGCACACCGCCCTGTG
CCGAAGCACTGGTGGCGGGGGCGTGTCCCGCGTGTGCGCCATGCGCGACCCCAACC
CGCTGGTTGCGAGCAAGGGCTTGCCCTGCTCGAAGCAGCAGGATCAAGACGGAATGCG
GTTTACTCGAACATCAGGCAAGGAACCTCAACCGAGGCTTCTGTGCGGCATCGAACGCC
GCCGCCCTTTGTCCGCTCAATGCGCCGTTTTCGCTGGACGGCAAAACCGCCCTTTTCAG
ACGGCAGCAGCTTTTGGATTACCGCGGAAGACGCGCGTGCAGCGTACAGGTTTTCGCTG
CCGAAGCTGCGCGGTGCTGACCGGCATCGGCACGGTGTGCGGCAATCCCGGCTCA
ACGTCCGCGCTTTTCCAATTTGCGCCAACCCGCACGCATCGTTTTAGACAGCCGCTGC
GCCTGCCCCCGAACAGCCTATTGGTTACCGACGGAACATCTCCGACCTACATCGCCACAC
TCGAACGCAACGAAGACAGACTGCACCCCTATCGGGAACACGCACAGTCCGCATCCTGA
TGCGCTCTGAACCGGCAGACAGCAAAATCGACCTGCACACCTGATGCGCCTCCTTGTG
ACGAAGGTTTCGGCGAAATCATGGTCAAGCAGGCTCCGAATCAGATCCGCATTTTGG
CAGAAATCTGGCAGACGAAATCGTCTGTACCGTTTCGCCCAAAATCCTCGGCAGCGGCA
AAGACCTGTTTTCCCTGCTCGAAACCGCGCGCCCTTTCCGCAACCGCCCTTGTGGACAC
CCGTTTCAAGCGAAATCCTCGGACACAACATCAAAACCGTGTTCGGAACAAACGGCAACG
CCTTTTAAAGGGTTTGGCGCGTTTCACTATATAATAACGCCGATAAAAAACGGCCCGTT
CAGACCGCGCCCGCCGAAAAACGCAACCCGGACTGCCGACCCCGCGCGCAGCCGCG
ACGGTCTGAAGCCGTCAGGATCCGATCAAGAAAGGCTTCAGACGGCACAGGCAGCATCC
CGCCGCCCGCGACATCAAAATGGACACAAAAGAAATCCTCGGCTACGCGGCAGGCTC
GATCGGCAGCGCGTTTTCGCGCTCATCATCCTGCGCGTGTGTGCTGGTATTTCCCGCG
CGACGACATCGGGCGCATCGTGTGATGACAGCGCGCGGGGCTGACGGTGTGCGGTGT
GTGCTCGGGCTGGATCAGGCATACGTCCGCAATACTATGCCACCGCGCAAAAGACAC
CTTGTTCAAAACCTGTTCTGCCGCGCTGTGTCTGCCGCGCGATAGCCGCCCTGCT
GCTTTCCCGCCCGTCCCTGCGCTGAAATCCTGTTTCACTCGACGATGCCGCGCGCG
CATCGGGCTGGTGTGTTTGAACGAGCTTCTGCCCATCCGCTTCTCTACTGGTTT
GCGTATGGAAGGACGCGCCCTTGCCCTTTTCGTCCGCGCAACTCGTGCCCAAGCTCGGCAT
CCTGCTGCTGCTGCCGCTGACGGTCGGGCTGCTGCACCTTTCAGCGAACACCGCGCTCCT
GACCGCGTTTTACGCGCTGGCAAAACCTTGCCGCGCGCGCTTTTGTGTTTCAAAACCG
ATGCCGTCTGAAGGCGTCCGGCACGCACCGTTTTTCGCCCGCGCTCTGCACCGGGGGCT
GCGCTACGGCATACCGATCGCACTGAGCAGCATCGCCTATTGGGGGCTGGCATCCGCCGA
CCGTTTGTCTTCAAAAAATATGCCGCGCTGGAACAGCTCGCGCTTATTTCGATGGGTAT
TTCGTTTCGGCGGGGCGCATATTGTTCCAAAGCATTTTTCAACGGTCTGGACACCGTA
TATTTTCCGCGCAATCGAAGAAAACGCCCCGCCCGCTCTCGGCAACGGCAGAAATC
CGCCGCCCGCTGCTTGCTCCGCCCTCTGCCTGACCGGCATTTTCTCGCCCTTGCCCTC
CCTCTGCTGCCGGAAGAACTACGCCGCGTCCGGTTTATCGTCGATCGTGTATGCTGCC
GCCGCTGTTTTCACGCTGGCGGAAATCAGCGGCATCGGTTTGAACGCTCGTCGCAAAAC
GCGCCGATCGCGCTCGCCACCTTGGGCGCGCTGGCGGCAACCTGCTGCTGCTGGGGCT
TGCCGTGCGCTCCGGCGGGCGCGCGCGCGCGGCTTGCTGTGCCGCTCATCTGGCT
GTTTTTGCCTTCAAGACCGAAAGCTCCTGCCGCTGTGGCAGCGCTCAAACGCTGCC
GCTTTATCTGCACACATTTGTTCTGCTGACCTCCTCGCGCGCTACACCTGCTTCGGCAC
GCCGCAAACTATCCCTGTTTGGCGCGTATGGCGGCATATCTGGCAGGCTGCATCCT
GCGCCACCGGAAGATTTCACAAACTGTTTCAATATTTGAAAAACAGGTTTCCCAT
ATGAAAATCGTTTTGACACATCTATGGCAGGCTTGGGCGGCACGGGCACGATATCATCG
ATTGCCAAATGGCGTGAAAAACGACCCCGTTTCAGTCCGACGAAATCGTCCGCCGCTTCA
GGCGCGACATTTTCTATCCGGAAGTTCGTAACCTGATTGAAAGATTGGCAATGAGTAAA
TTCTTCAACGCGCTGTTTGACATTTGCTCGCTCCGCTCGGGACTGATTTCTCTCGCCA
GTATTTTGTATTTGATATACCTCATCGGCAAGAACTAGGTTTCGCCGCTTCTCTCTTT
CAGGAACGCCCCGAAAGACGGAACCTTTTAAATGGTCAAAATCCGTTCCATGCGC

Appendix A

-426-

GACGCGCTTGATTGACGACGCGATTCCGCTGCCCCGACGGAGAACGCCTGACACCGTTTCGGC
AAAAAATGCGTGCCGCCAGTTTGGACGAACTGCCTGAATTATGGAATATCTTAAAGGC
GAGATGAGCCTGTGTCGGCCCCCGCTGCTGATGCAATATCTGCGCTGTACGACAAC
TTCCAAAACCGCCGCCACGAAATGAAACCCGGCATTACCGGCTGGGCGCAGGTCAACGGG
CGCAACGCGCTTTCGTGGGACGAAAAATTCGCTGCGATGTTTGGTATATCGACCACTTC
AGCCTGTGCCTCGACATCAAATCCTACTGCTGACGGTTAAAAAGTATTAATCAAGGAA
GGGATTTCCGCACAGGGCCGAAAGCCACCATGCCCCCTTTCACAGGAAAACGCAAACTCGCC
GTCGTGCGTGCGGGCGGACACGGAAAAAGTCGTTGCCGACCTTGCCGCCGCACTCGGCCGG
TACAGGGAATCGTTTTTCTGGACGACCGCGCACAGGCAGCGTCAACGGCTTTTCCGTC
ATCGGCACGACGCTGCTGCTTGAACACAGTTTATCGCCCGAACATACGACGTCGCCGTC
GCCGTGCGCAACAACCGCATTCGCCCGCAATCGCCGAAAAAGCCGCCGCTCGGCTTC
GCCCTGCCGCTTCTGGTTCATCCGGACGCGACCGTCTCGCTTCTGCAACAGTCGGACAA
GGCAGCGTCGTTTATGGCGAAAGCCGTCGTACAGGCAGGCAGCGTATTGAAAGACGGCGTG
ATTGTGAACACTGCCGCCACCGTCGATCAGCACTGCCTGCTTAACGCTTTCGTCCACATC
AGCCCAGGCGCGCACTGTCGGGCAACACGCATATCGGCGAAGAAAGCTGGATAGGCACG
GGCGCGTGACGCGCCAGCAGATCCGTATCGGCAGCGCGCAACCATTTGGAGCGGGCGCA
GTCGTGCTACGCGACGTTTCAGACGGCATGACCGTCGCGGGCAATCGGCAAGCCGCTG
CCGCGCAAAAACCCCGAGACCTCGACAGCATAAGCGATTAAATACACCCCGTACAGAC
CGATTTTGACAACACCTGCGGCGCGCGCCGATTCTTCGGAACACGCCCCCTTCAGACG
GCATAGGGTTCGGAATCGCTGCTTGAACACCGGACGCAAAACCATCATGCTGAACACTTC
CTTTCCCGTGGCCCTGCTTACCCAAAGAAGAAGCCGATGCCGTTTCCAAAGTCTGCTG
TCCAACAAAGTCAACTACTGGACGGGCAACGAATGCCGCGAATTTGAAAAAGATTTGCC
GCCTTTGCCGCGACGCGGTACGCCGTGCGCCTTGCCAACGGCACGCTGGCACTCGATGTC
GCGCTCAAAGCAATGGCGCGGCGGCGACGATGTGATTGTTACCTCGCGCACCTTC
CTCGCTTCCGCGTCTGATTGTGAACGCGGGCGCAAAACCCGCTGTTGCCGATGTGGAT
TTGAACAGCCAAACATCAGCGCGGAAACCGTCAAGCCGCGCTGACACCGACTACCAA
GCCGTATCGTCTCCACTCGCCGCTATGCCCGCGAAATGGACGGCATATGGCTTTG
GCAAAAGAACATAATCTTTGGGTAATCGAAGACTGCGCCCCAAGCGCACGGCGCAAAATAC
AAAGGCAAAATCCGTGCGCTCTATCGGACACGTGCGCGCGTGGTCTGCTGCAAGCAAAA
ATCATGACCACCGCGCGGAAGCGGTATGGTTACGACCAACGACAAAACCTGTGGGAA
AAAATGTGGTCGTACAAAGACACCGGCAAAAGCTACGATGCCGTGTACAACCACGAACAC
GCGCCCCGTTTCCGCTGGCTGCACGAAAGTTTCGGCACAACTGGCGTATGATGGAATG
CAGGCGGTATCGGACGCATCCAGCTCAAACGCCTGCCCGAATGGACGGCGCGCGCCGA
GAAAACGCCGCCAAGCTGGCGGAAAGTTTGGGCAATTACGACGATCCGCTTGGTTGAA
GTCGCGACTACATCGGACACGCGCAATATAAGTTCTACGCTTCTGTCAAACCCGAACAC
CTCAAAGACGGCTGGACGCGCGACCGCATCGTCGGCGAATGAACGCGCGCAAGTCCCC
TGCTATCAAGGCAAGCTGCTCCGAAAGTCTATTGGAAAAAGCCTTCGACAAACGCGGTGG
CGACCGAAAGAGCGTTTGACAAATGCTGTCGAGTTGGGCGACACCAGCCTGATGTTCTTG
GTGACCCGACGCTGACCGACGACGAAATTCGCTTTTGCAAAAAACACATCGAAGCCGTC
TTGACCGAAGCCGACGATAACCTTCAGACGGCATATGCCGCTGAAACACATACCGC
CCACGATATGAATCTGAAACTCTGATCGCCCTGCCGCGCAACATCAAGAAAAATCTGTT
TCCTCATACACGATTTTCTGATGATTTTCATTGCCCTTTTGGTTACCCAAAGCCTAAAGG
CCGACTACTCGGACGAATGGTTTCGATTTTGCCAACTGGCAGTCTTTTTTGCTGACTGCCT
TGCTGACCATCACATTATTTATCCGAATGGGGCTTACCACGCGTTACACGCTTCGTCA
GCTTCCGCATCCTACCACCGCACTGGCGGGCAGCCTCGCTCCGCGTGTGTTTTTCC
TCAATACGCTGATATTTGAAGAAAGGCTGCGCCTCGCCCTGCCGATGTGCTATTTCTTAC
TGCTGTTGTTTCCGTGACCGGCTCGCGTATGGTTTGGCGGACTGTTGTCCGAACAC
CCAAAAAACAGATGATCCTGTCTCATTTACGGCGCGGGACGGTCGGGACAGCAACTGC
TTGAGGCGCTCAAAACAAATGCGCGAATATCCGCGCGCGCTTTGTAGACGACGACCCCA
AACTGTGGCACACCGTCTATACGACCTTGCCGTTTACCAGCCGATGCCATCGCCTTCC
TCATCGAACGCTGCGGCTGGAAAAAATCCTGCTCGCCATCCCGGCGCGACCCAGGAAC
AACCGCGCGCAATCATCAACAACTGGAAGCCTATCCGTGCGAAGTGTGACCATTTCCG
GAATGAAAGACCTGATGGACGGAAAAATCAGCATCGGCACGCTCAAAAAATCTCTGTGT
CGCAGCTGCTCGGGCGTGATTCCGTCGCGCCGACGACCGCTGATGAGTGCCGACATCG
AAGGCAAAACCGTCATGGTAACCGGCGCGGGCGGCTCCATCGGTTCCGAACTCTGCCGCC
AGATTATCCGCCGCCGCCGAAAGCTGCTGCTGTTCGAGTTATCCGAATTCGCCCTGT
ACGCCATCGAAAAAGATTGCGCGAAACCTGCATCCAAAAACGCCCTCGACACCGAAATCC
TGCCCTTTCTCGTTTCGGTGCAAAACCGCACGCTGCTCGAACCGTCATGACCGCTTTT
CCGTTGCGACCGTCTATACGCGCTGCCTACAAACACGTCCCATGGTCGAGTTCAACA
CCGTGCAAGGCATACGCAACAACATCTTCGGCACACTCGAGTGCGCGCTTGCCGCCACGA
CATCGGGCGTAAGAACTTTCGTCTCATCTCCACCGACAAAGCCGTCCGCCCAACCAACA
CCATGGGTGCCAGCAACGCATGGCGGAATCTGCCTTCAGGCACTCGCCGCCGAACCCG
GACAAAAAACCCGCTTACGATGTTACGTTTCGGCAATGTTTATGTTTCGTCCGGCTCCG
TTGTCCCGCTGTTTGAAGAACAGATTGAGAAGGCGGCCGCTTACCCTGACCCACCCG
AAATCACACGTTTATTCATGACCATACCCGAAGCCGCCCACTCGTCATACAGGACGGCG
CGATGGGTACGGGCGGCGACGTATTCGTCTCGACATGGGTGAATCCGTCAAAATCATCG
ACCTTGCCCGCCAAATGATTACCTTAAGCGGCCTCAAACCAACACACCCGAACAACCCG
ACGGCGACATCGAAATCTTATACCGGACTGCGTCCCGGAGAAAACTCTACGAAGAGC
TGCTCATCGGCGACAACGTCCGCAAAACCGGCCATCCGCGCATCATGACGCCAACGAGA
CCATGCTGCCGTGGACAGCTCTCCGCCCTGCTCGACCGCATCCGTGCGGCTGCGACG
GTTACGACGACGAGCAATCCGCACCTGCTCATCAACGCCCGACCGGCTTGGCCCGA
GCGACGGCATCTGCGACCTGCTTTGGGTACGAGAAACACACAGAAAAAATGCCGTCTGAA
CCTTCAGACGGCATAACTACAAACCAACCTACCTTACACACACGAGTTTGACATGCAG
TTCTCAGCATTCGGCGAAAAATTCACGCAACACAGCGGCATCTCCAACTGATGGACGAC
CTCGCGCAGCGCTCAAAAGCGACAAGCCGTCACATGCTCGGCGCGGCAACCCGGCG

Appendix A

-427-

CGCATTCCGGAAATCGATCAGGCGTTCGCCGACATATTCTCAAACCTGGCGGCAGAACAC
GCCGTCGAAAACATCGGCAACTACTCCAATCCCCAAGGCGATGCCGTGCTGATTGACGCG
CTGACCGCTTCTCAACCGCGAATACAGCTGGAATCTGACCGCGACAATATCGCGCTG
ACCAACGGTTTCGCAAAACGCGTTTTTCTATCTTTTCAACCTCTTCGGCGGCAAAATCAAC
CTTTAGACGGCACATCCGCAGAAAAAGCCATTTTGTTCGCCCTCGCGCCCGAATACATC
GGCTATGCCGACGTGCATGTCAAGGGCAGCACTTCGTTTCGTCAGCCCAAAATCGAA
AACGTCGAACACGAAGGCGAAGCCGGCTTCTTCAAATACCGCTGGGACTTTGACGCACTG
GAAAACCTGCCCGAACTCAAAGCGGGCAAAATCGGCGCGATTGCTGTTTCGGCGCCGACC
AACCCGACCGGCAATGTGTTGACCGACGGCGAAATGGCGCGTTTGGACGCTTTGGCGCGT
GAACACGGCATTCGCTGATTATCGACAACGCCCTACGGAATGCCGTTCCCAACATCATT
TACAGCGACGTAACGCTGAATTGGCAGCAAAACATCATCTCTGCTTCAGCCTGTCCAAA
GTCCGCCGTGCCGGCGTGCACACCGGCATCATCGTCGCCCGGCCGAGTCTCAAAGCC
GTCAGCAGCCTGAACGCGATTGTGAACCTTGCCCCACGCGCTTCGGCGCGGCCATCGCA
ACGCCGCTGCTGGAAGCGGCGAGATGAAACGGCTTGCCGACCAAGTCATCCGGCCGTTT
TACCGCAATCAGGCGCAAAACCGCGCTCTCGCTGCTCAAGCGGGAGCTGGGCGCGTACCCG
ATGAAAAATCCACAAACCCGAAGGCGCGATTTCTGTGGCTCTGGTTTGAAAACTGCC
GTTTCTTCGCAACCCCTGTACGAAATGCTCAAAGCCGAAGGCACACTGATTATCCGGG
GAACATTTCTTCGTCGGCATCGACACGCGAGATTACCCGCATCGGGCGGAGTGCATCCGC
ATGAGCATCGCGCAGGACGCTCAAACGCTGGAAGAGGCATGCGGCCATCGGTAAACCC
GTCCGAAAACTGTACGACACGTTTAAACGCAAAAAATGCCGCTGAAAGGTTTTCAGA
CGGCATTTTATCTGCATTCAATATCGGGAAAAATGTTCCCAACCCGTTTGCAGTTTTC
CGGCAGCTCGGGACACGCGCCGAGGATGCCGCCGCTGAAGTCGTTTAAAGCGGTGGAAGTC
GCTGCCCGCGCTGGCGAGCATACCGAAGCGTTCTGCCAAAAGCGCGTAGTTGAGGCGGTC
GTTTTTGCAGCAGTTTCCGCTGTGGACTTCGATGCTCGCGCCGCGAGGTTTTTAAATTC
TTCAAACAAATTGCGCTTGCGCGTGGCGGACAAATCGTAGCGCATGGGGTGGGCGATGAC
TGCCATGCCGCCGCTCCGTTGACGGCGGAGACGAGTCTTCCAGCGTCGCCCATTCGTG
GCGGACGGCGCAGGATTTCGCGTCGCCCAAGTATTGGTGAACGCCCTGCTGCTTGTGTTT
GACGTGTCCCGCTTGGATGAGGAACCTCGGCGACGTGGGTGCGGCTGACCATTCTTTGTT
TGCCGCCAGTGCCAGCGCGCCGCTCGTATGCGCGCCGATGCTTTCTTTTCAGCTTGGC
GGCGATGGCTTCAAGAGCTTTCAGACGGCCTTTCGCACTTGCGCCACAGGTTTTGCAG
GTTTTCTCTGCTCGTCGAAATCCAAACCGACACGCTGATGGTGCGCCCGCGCCACGT
TACGGAGATTTCCACACCGTTAATCAGGCGCAAAACCGAGCTTGTGCGCTTCGGCGCGCGC
TTCGGCGATGCCGCCGCTGTTGGTGGTGGTCAACGCCAGCAGCGTGCAGCCGTTTGG
ATGCGCGAGGCGACGACTTCGCGGGGGGAGAGCATACCGTCGGAACGGTGAATGGCA
GTGCAGGTCTATCATGGGTGTTATGTGTGTGTGAATGAAGGTCGGGGTTAATATTAT
CGGTTGGTGTGGATACAGCGGTGATTTCAACAAACAGGTGTATGGCAAATGCAAGGAAA
AGTCCCTATGCGCTACGCTTCGCCGCGAGCGGGAATCCAGACCTTGATTGTCAAATAAT
TTAAGGTTAACCCTATTTCGAACCTCCGGATTCCCGCCTGCGCGGGAATGACGATATGG
ACGTTTTTCAGTTTTAATCTACTATAAAAGACTGTCTGAAAACGTTGTTTTATAGTGAAT
AAATTTAAACCGGTACAGCGTTGGCTCGCCTTGCTCAAAGAGAACGATTCTCTAAGGTG
CTGAAGCACCAGTGAACCTCGGTTCCGTAATTTGTACTGTCTCGGCTCGCGCCCTTGT
CCTGATTTTTGTTAATTAATCTATATCAAGCCGAACCGTTTCAGACGGCATCGTCCGACCA
ACCCGCTTCTTTCAATTTCTGCCGTTGCACGTCGTATTTGGCTTTATCCGCCCGAGTAAAT
CGTCTGAATGCACGCTTCGCCGCGAGTCGCTGCGCGACGATTCCACGACTCGGGTCGGAC
GGGTTCGCTCAAAGCGGCTCGCCCAAAAGGGCTTCGGCTTTATACTTCAGGGTCGTATC
CATCGGGGATTTCCAAGCGAGCGCGTCAAACCTCGATGACTTCGCCGCCGCGTATTTTGG
CGGTTTTACGGGTTTCGGTTTCGCCGTTGCGCAACACCAGCCCTTCGGCGATAAACGCTT
TCGCCGTGCCGCCGCTTCGGCAAGTCCGACCAATTTCAAGAGGTCGCACAAGGCGATGT
ATTGCTGTGCTTCGAGATAGACAGTGGCTTCCATAATGTTCCCTTGAGAAAGAGGCGGT
TATTGTAGCACCTGCCGCCGCGTACCCAAAATTAACGAAAAACCGCGATGTATCCGCA
CCGCTGTTCCGTTCCGTAAGTAAATAATGCCGCTGAAACCCCATATGCCGCCATCCGTTCAA
AGAAATCCTGCCAACGGCAGACTGCAAACTCCTGTTCCCGACGAATCCGCATTGACGCT
GATGCACATCCTCAAACGCGAATGCCGATACACGGCAATCGGCATCAAACGAAATC
AAAAACCTGTTGAACGTAAATTAATTTAAGTCTGCTGCCATCCGTCGGAATAAGGCATA
TAGTTCTTTATAACTAGTTTGATAGTCCTTTATATCTATCAATACTCCTTGGGAAGCCTC
CGCCATACGGCAGGAGGCAATTTTTTGGCGTAGTAAAGCTCAAACCATTTGCAGGTCA
TGCCGCTCTGAACCCGAAACGGCATTACCTACACGCCCATCTAAAGACAACCTGCTACAA
TAGCCCTTTTATTGTCCAGCCGATTTTGGCATGACCGAGCCGACCTACATTCCCTGCG
CCTGCATACCGAATTTTCGATTACCGACGGTATGTTGCGGATTAATAAAGTATTGCCAA
AGCGCAGGAATACGGTTTCCGCTGCTTTGGGCATCAGCGATTGATGAACGAATTCGGTTT
GGTGAATTTTATAAGCCTGCCGAGCGCGGGATTAAAGCCTATCGCGCGCGCGGATGT
GCGGATAGGCAATCCGGATGCGCCCGACAAGCGTTCCGCGCTATGCTGATTATCCGTAA
CGATGCGGGCTATCTGCGCTTGAGCGAGCTTCTGACGGCGGCTTATGTCGGCAAGACCG
CAATGTCCATCATGCGGAATCAATCCGAATGGCTGGAACCGCGCAACACAGCGGCTT
GATTTGTTGAGCGCGCACATTACGGCGAAGTGGCGGTGAATCTGTTGAACGGCAATGA
AGACGCGCGCGTACGGCGCGGTTGAAGTATGCGCGGTGGTTCCCGATGCGTTCTATAT
GGAGCTGCAACGGCTACCCGAACGCCGAATGGGAGGCTTGCGTTTCCGGGAGCGTGAA
GCTGGCGGAGGAATGGGTTTGGCGGTGGTGGCGACGATCCGACACAGTTTATGAGCGC
CGACGATTTCAACGCGCACGAGGCGCGAGTGTGTATCGCAGGCGGCTGGGTATTGACGGA
CAAGAAACGTCCCGCGGATTTACGCCGGGCCAGTTTTTCAATTCGCCCGGAAACCATGGC
CGAACGTTTCGCCGATTTGCGTGAAGCCTTGGAACACGCTAGAAATGCCAAACGCTG
CAACCTGCACATCATTGCGCAAAAACTTCTGCCCCCTTTTCCACGCCCGACGGTTT
ATCACTCGATGACTATCTCATCAACTCTCCAACGAGGGTTGACAGGAACGTATGGTTCA
GCTTTATCCCGACGAGGCGGAGCGGGCGGCAAAATGCCGGAATATCAGGAACGTTTGGGA
TTTTGAGCTGAACATCATCATCAAAATGAAATTCGCCGGCTATTTCTTATCGTACAAGA

Appendix A

-428-

CTTTATCAACTGGGCGAAAAACACACGGCTGTCCGGTCGGGCGGGCGGTGGTTCGGGCGC
GGGTTCCGCTGGTGGCGTATTTCATTGAAGATTACCGACCTTGATCCGCTCAAATACGCGCT
GCTGTTTCGAGCGTTTCCTTAAACCCCGAACGCGTTTCTATGCCGACTTCGACGTGGACTT
TTGCCAAAGCAACCGCGCGCGGTGATTGAATATGTGCGCGAGAAATACGGCGCGGAGGC
GGTCAGCCAGATTGTTACCTTCGGCACGATGTCTCCAAAGCGGTTCATCCGCGACGTCGG
GCGCGTGTAGAGCTGCCGTTTATGCTGTGCGACAACTGTCCAAGCTGATTCGGTTGGA
AGCCAAACAAACCCCTGAGTTTGGAAAAAGCCATGGAGACCGAGCCACAGATTCAGGAATT
AATCGAAGCGGAAGAAGCGGACGAACTGATTACGCTGGCGAAAAAGCTGGAAGATTAAAC
GCGCGGTTTGGGTATGCACGCAGGCGGCGTGTGATTGCGCCGGGCAAGATTTCCGATTA
CAGCCCGGTGTATCAGGCGGACGAATCCGCTCGCCCGTATCCATGTACGACAAGGCGCA
CGTGGAAGATGTGGGTTTGGTGAAATTCGACTTTTTGGGTCTGCGCAACCTGACCATTAT
CGAAATGGCGCAGAACACATCAAAAACACTACCGGCGACATCATCGATGTCCGCAAAAT
CCCGCTTGACGACAGGTGCGCTACCAAACTCTTCGCGATGCGAACACCACCGCGCTCTT
CCAGTTTGAGTCCGACCGGCATGAAAAAATGCTGAAAACGGCGCACAGACCAAGTTTGA
AGAATCATCGCCTTCGTATCGCTCTACCGCCCCGGCCGATGGACAACATTCGCCACTT
CGTCGACGATGAAGGGGCAAGAATTCGAATACATCCATCCGCTACTCGAAGGCATCCT
CGCGCGGACCTACGGGATTTAGTGTATCAGGAACAAGTATGACGGCGGCGCAAAATTAT
CGGGCGCTACTCGCTCGGCGGCGCGGACCTGCTGCGTCGCGCCATGGGTAAAGAAAAACC
CGAAGAAATGGTGAAACACCGCGAAATCTTCGCGCAAGGCGCGGCAAAACAGGCATTTT
GCGCGAAAAATCCGAGCAATTTCACTACATGAAAAAATTCGCGGCTACGGTTTCAA
CAAATCCACGCGCGCGCTACGCGCTGATTTCTACAGACCGCATGGCTTAAAGCGCA
CTACCCCGCGCAATTTATGGCGGCGACCATGTCTCCGAATTTGGACAACACCGACAGCT
CAAGCATTTCTACGACGACTGCCGCGCAACGGCATTGAGTTCTGCGCCGACATCAA
CGAATCCGACTACCGCTTCACGCGGTATCCGGACATGAAAAATCCGCTACGCGCTCGGCGC
GATTAAAGGCACGGGCGAAGCCGCGTCAATCCATCACCGCGCGCGGCAAGCGGCGG
CAAGTTTACCGGTCTGTGGACTTCTGCGAGCGGTTCGGCAAGAACACATGAACCGCGG
CACCTTCGAGGCGCTGATACGCGGCGGCGGCTTCGACAGCATCGAACCAACCGGCGCAT
GCTCTTGGCGAACATCGACCTCGCTATGGACAACGCGGACCAAAAGCGGCAACGCCAA
TCAGGCGGGGCTTTTCGACATGATGGAAGACGCCATCGAACCCTGCGGCTCATCGACGC
GCCGATGTGGAGCGAATCGGAAAACTCGCGGAAGAAAAACCGTCATCGGCTTTTACCT
GTCCGGCCACCGCTTCGGCCCGTATGCCAAGAAGTCCGCCAAATCGCACCGACCAAT
AGACCGTCTGAAGCCGCAAGACAGCGTGCCTCGCCGATTCGTACCGCGGTGCGTAC
GATGATGGGCAACCGCGCAAAATCGCCTTCGTGAGCTCGAAGATTTAGCGGACAGGT
TGAAATCATGGTTCGGCGGTACAGCGTTGAAAACTGCGCGCATGCTCAAAGCGGACCA
AGTGCTGATTATCGAATCCAAAGTCAGCCGCGACGACTACGGCGGCGGCGACGGGTGCG
TATTTTCGCAAAACCAAGTCATGACCTGCAACGGCGCGCGAAGCTACGCGCGACGCT
CAGCTTCGCCCTCGCCGCTACGACATCGGCGGACTGGTACGGCTGCTCGCGGCCCA
CCAACTGCGCGACACCGCGCGCATCCCGCTGCAACTGTCTATGCCAACGAAAAAGCGTC
GGGCAGGCTTCAAGTGCAGCGCAATGGACGGTTACACCGAGCTCCGCATGTTTCGCGCA
ACTGGAACATTTGCTCGGCGAGCCGGTTCGTGCGCGTCACTGGTAACCCAAATATAAAT
GCCGTCTGAAGCCCAAAAGCCGTTTCATTCGTACTTTTATTCGAATGATTGAATAAAGT
AACTGCCAAGAAAAACGTATTTTTTGGTTATTTTCGCCAGTCTAAATAGAGCAACCGGGAC
GATTGATATCCGTGTGCTATGACACAGACAGCACCAAGGGAAAAACGGCATTTTCCAAAG
TATCGGTATCAAACCGGCTTTCACTCCAAAAATACCAATCGACAACCGGGCAAGA
AATCAGACCGTGCCTGTAACCAACGCCACCGCTCCGTTAAATTAACCTATCCCTGTT
TCAGACGGCCTGAAGCAGGGATTTTTATATCAAATAAAATGAGAAAGGGAGCAATAACC
CTTAGGTAGCTCTTGTATTTTCCGATGCAAAACAAAGCAGTCATATTTAATTCCTCC
TACCTTCGCCAATTCCTCAAAATATTCGACGCAATCGGTACGCGAGTAGAACGGGACA
TTGCCGTGGTTCGGCATTCGGATATTCGCGAAAAAGACGGCGGCGCCGTCGCTGTCTAAC
TCTGCCGCGATTGTTTCGGCTGCGCTGCCATATCGCGTCTTCCCTGCGTTTACAAATCG
CTACCCGTTCTTAGCGCGCGCATGTTGAGCGAGACATCGATGCCGTTTAGCCGTTTCA
GACGGCATAAAGTCGAGTATCCGCTGTTGTGCCACCAATCGATGGGGATACGAGCCAA
TGCCGCTCGAAGCGGCGGTGGGAAAGCAGGGAATACAGTCCGAACAGTGCGCCGAACGAG
TGTCCGAATACGGCGGTTTCATTCGGGTTGAGGGTGTAGCGGCTTCTAAAAAGCGGTC
AGCTCGCTGTCGATAAAGGCGGCGAAGCGGTCTGCCTGTCCGAAGTGTGCGGTTCTGCT
GCTGTGGCGTTGCTCCAGCGGCGGCGTGTAGTCCGCGGACGTTGTGCCAAATCGCGC
ACACTGCCTGTCTGTAGCCGATACCGACAATCAGGCAGGGGGCGTTGCTTCGGGTAAAG
GGGTTGTTTCATCAGCGACTGCATGATGTTGAAAAGTGCAGGGGAAAAAGGCTTCGCGGTG
AGGACAAAGAGGACGGGATAGCCTTCAGACGGTATTTTCGCCGAGTGTGCGGTCTGAATC
CGATAGATTGCCCCGTGACGGTGGATTGATTTTCGGTTTCAAAGGCTTGGGGCAGTATG
GCAGGTTGGAATGTGTGCGTTCGTTATGGGTTTCATGATGTTTCGGCTGTGGGTGAGCTG
GCGGCAAGCGGTAAACCGAACCAGGCAAGCGGTCTGCCTGCGGTTTCGGTCTATTTTCC
TTCGCAATGCCATACTCCAGTTGTGAGAGCATAGGGTATGCCGCGACGTTGTTGTAGTT
TGATGATGCTCGCGGTCGCGTTTCAGACGGCATATTGGTCTTTAAAACTGTAACGCAGG
TTTGCCGTACGGTGCCTCCGACCGGGAATGTTAAAGGTGCTCTGCTGCCGACGCGG
GCGTAGTAATGGCGGTTGAAGATGTTGTGCGCGTTGATTTCGAGCTTCAGTTTGGGCGTG
AAGCGGTATGCCGCGCATCGCATCGAAGTGGCATAACCGGCTGCATGTATCCCTGCAGAT
GAAGTAATGCCGCTCATCGGCTTCACGCCGCGCGGATGGTCAGCCCGGACGTAACCTGG
TAAGTCGTCCACAGGTTTGGCGTGTGTTTGGGCATCAGCAGGAAGATGCCTTCGTGCGC
GAATTTGAGGGCGGTTTTGATTTGGCTGTGACGGTAGCTGTAACCTGCATGGATTTGCCAT
TTCGGTGTCTATCGCGCGCTGATTTTCGGTCTCAACACCTTCCATCACGCGTTTGCCCAAT
GCGGCGTAACGGGTTTTTTGTTGTTGAGTCCAGCGGTGCGGCGGCGTTTTTATCCTTC
ATGCGGTAGAAGCAACCGGGTATTGAGCGGTGCTCATGTAGCTGCCCTTGTAGCCG
ATTTCAAACCTGGTTGCCCTTCGCGCGGTTTGAAGAGCTTCCGCTCGGTGCCGATGCTGGTT
TGCGGTGTGTAGAGTTGGGAGGCGGAAGCGTACAGGCTGTTGCTGCCGTCTATATCGTAA

Appendix A

-429-

ACCGCGCCGGCGTAGCTTGTAAATTTGGTTTTTCGAAGCTTTATGCAGGGTTTTTGCCGTCG
CCCCACTCGATTTTGTGATGTCTACACGTCCGCTGCAATCAACGACAAACCTTCCAGA
GGACGGGAACCCGTCTTGGCATACAAACCGGTTTCGTTCGAGGTTTTCTTCGGTAACGGAG
TGATTGAAACCTTTGTTTCCGGCGCGGGCGTTCTGAAGTATGCCGTTATAAGGCAAAGCG
CGGAAACCATCTAAAGCGACGCTTTTTCGAAGTGAACGCCCTTGTTCATTAGTACTG
CGCAAGCGGTTGTAGTCTGCACCAATCACAATTCGTTGGCGGTGTTGCCCAAGGCAAAAC
GGACGGCTGTAACCTTGGCTCAACCGCAAAGGCTTTTGTGTTAATGTCCGTACCCAAACCC
GCTACGTCCGCTTGTCCGCTATTGTTGAGTTGCTGCCCGCAAACGTATAATTGGAATCG
GCTTTCCGATCGGAATAGCGCATACCGACTTTGCCGTAGCCGCGTGGCCGAAGTAATGT
TTCAAATCGGCGAACACGTCTGTGGCTGTGCATTTTAAATTTGTTTCCAATCCGCGCCGACA
AATACGTGTTGCGGCGAGGACGGTAATTTGTTATTGGCATCGGCAGGCAGGCCGTTGTAC
GGCGCGAGGCGGCGTTGCTGGTAAAGATAGCCCGCGCCAAAACCGTATCGGGGTTGATG
TCCCAATCCGCGCCGCTAGAGGTTTCGCGCGGTTGTTTTCTCGGCGGGACGCGGA
GACGCGCGACGGTCTGCCCATCACGCGCGCGCACGCTGCCGTCTGAATTGAGGCTG
CCCGATACGTCCGCTCGGCTTTATATTGTTGTGCGTACCGAACCTGCCGCCGATGA
CCTTGGAACGCTTTGGTCGGGCGTTTGCACACAGATTACGATGCCGCCCATCTCGCCG
CTGCTGTGCAACAGTCCGCTCGGCCGCGCATCACTTCCACGCGGTGGAAGCGAACAGG
TTGGGCAGCGTGCCGTTGATACTCTGCATCTGCGCGGCGAGGCCGTCGATGTTGTATTTCG
CTGTATTTCGTAACCGCGCGCTAAACCGAAGAGCGTCCGTCGTCTGTCTCAACACGCGC
AGGCCGGCGTTTTTGGCTGCCAACTGGTCAAACGTATCAACATTGCGGTCTTTGACCTGC
TGGTTGGTAATGATGCTGACGGATTGCGGAATTTGCGCGAAAGAAGCGGGGATTTTGTGA
CCGACGTTGGCGCAAACGAGCTGTAATCGCCGTTTTTCTCGGTGGCAATCGCGTTGTAA
GAACGCTGACCTTAAATGAGCGGTTTCCAAACCTTCCGTTTGTGCGGCAAAAACCGAA
GACGAGAGTGTCTGCCAAACCGTGGCGGCGGTCAATTGATGCGGAAAACCTGACATAAAC
TGTCCCATTCACATAAATGATAATGGTCTATTTTAATAAAGCGCAACGCGGCTTGTTCG
GAAAAACATATCCGCGAGCGGACAAATTTTGTGCGAAAATGCGACACGTCTCGCTTTTCCG
CATAAAATTTGCTTTTTTACTGCAACCAACCTGCTATGACCAGCGCCAAACTCATCATCT
TCGACTGGGACGGCACGCTTGCCGATACGACCAACCCATCATCGACACCATGCGCCGCA
GCTTCGCCGAATCGGTTTTTCCGCGCGCCGAAGCGGAACGCGTCCGCGAGCTGATTGGCT
ACAGCCTGCCGGAATCATCCGCACCCCTGCTCGAAATGCCGTCTGAAACCGCGCTTGCCG
ACATCACACGCACTTATTCGCGACATTACCTCAATCCCAACAACCGCAATATGTCTTAT
TTCCCGATGCCCTGCGCTGTCTGGACAAGCTCAAAGCACAGGATACTGGCTTGCCGTCG
CCACGGGCAAAGGGCGGGCGGTTTTGGACAACGCCATCAGTCAAACCGCCACCGCGGCT
ATTGGCTCGCCACCGCTTGGCGGGGGAATATCCCTCCAACCCCTCGCCCGAAATGGTAT
TCGGAATCTGCGGCGAATGGGACTCGACCCGAAGAGGCATTGGTCGTGCGCGATACGG
CGCACGACCTGCATATGGCGGCAACCGCAGGCGCGGCGGAGTCCGCGTGCCACCGGCG
CACATTGCGCGCAACGCTCTTAGCGCACCGCATCTCGCGTATTGGACGTTTTGTCCG
AACTGCCCGGTTTTTCTGCAACAACATTACGCTGATTGGTTTCCGCATCCGGCACAGGC
AAAAATGCCGTCTGAAGCTGTTTCAAGCGCATTTGTGTTGCCCAAACATTCAACGCTG
CGTCAACGTTTGCAAAATCGGTTTTGTTTTGCGCTCGCGGCGCAACTCTTTGGGCGAG
ACGAACACAATCTTCTTCCGCAACCTCGCTTCCGCTACGGTTTCGTGCCCCATCCG
CGTATGGTTGCCAGTACTTCCCGCACCAACACTTGGGCGCGGACGCGCTGCCGTTACG
CCGACTTTGTTTTTGCCTCAAAACCATGCGGTTGCAAGTAGCCTGCATTATCCACCATA
TAGCATCGATTCCGCGGATGCGGCACTTCCGCAAGCGGTTGCTGTTGGACGAATTG
GGCGAACCGACCAATCAGGATGTCGCACTGTTCTGCCAACTCTTTGACGGCGGTTTGC
CGGTTGGTCGTGCGATAGCAGATATCTTCTTGTGCGGATTGCGGATATTGGGGAACGC
GCGTTCAGCGCGCGATGATGCTTTGGTTTCATCGACCGAGAGCGTGGTTTGGCTGACA
TAGGCGAGTTTTCGCGGTTTTCTGACTTCGAGTTTTGCCACATCTCCGACCGTTTTGACC
AAAAGCATTTTGCCCGGCGCAAGCTGCCCATCGTTCCTTCGACCTCGACGTGCCCTTA
TGCCCGATCATGATTTTACAGTCTTGGGATCCAGTCCGGCGACTTCTTATGCACT
TTCGTACCAAGCGGCAAGTCCGATCAAACACGCGGAACCGCGCTCCGCGGCTTCTTGC
CGCACCGCTTCGATACGCCGTGTGCCGAATAAACAGTGTGCGCGCCGCGGCACTTCC
GCCAAGTCTTCAATAAACACCGCACCTTTTTCACGAGGTTGTCCACGACGAATTTGTTG
TGAACGACTTCTGGCGCATAAATCGGCGCGCGGAACCTTCCAAAGCAGGTTCCGACA
ATACTGATTGCCCGATCCACACCGAGCGCAGAAGCCGCGCGGATTGGCAAGGATGATGGTT
TTCTCGTTCATAAGCCCGGTTATTCGTTTTAGACGGCATCAATATTTTCTTCTGGGT
TTTACGGTGGACGATGTTGTCCAACACCGCCAACACCGCACCGACGAGATAAAGCTGTC
GGCAATATTAAGGCGGGGATAAAACCAATTTTGCCAATAAAACAATAAGAAATCGACGAC
ATGACCGTGTATCAGGCGGTGATGACATTGCCTAACGCACCGCGGATAATCATTGCCGC
ACCCGTTTTGCGGAGGTTGCAAACTCATCGCGCAAGATGGCGGTACCAATACGCGCT
CACCGCCACCGCGAGCACCAAAAAAAGTATTTTTGCGAGCCGCTGATCGGCAAGGAA
GCTGAACGCGCGACCGGGTTGTACACAGCGTCAGATCGAAAAAGGAAGGAATGACATT
GACGCGTTCGCGATACTGAAACGACGACGACCGCCCACTTCGACCACTGGTCCAGCAC
GATGGCGGAAGTGCCAATACCAATAGCGCGTTTTACTTGAAACAGATGAAGACATATT
TTTCAACAGCCGTAAGAGGATACCATTTTACCCGAAAACCCCTTCTGTATCCCGAAA
CGGCAAAATGCCGTAATCTTAAACCCGTCATTCCCGACAACACCGTAATCTCGAAACCCG
TCATTTCCCGGTAGGCGGGAATCCAGACCTGTCCGACAGAAACTTATCGGATAAAAAACA
GTTGCCCAAACCCGCGTTCTATAGTGGATTAAATTCAAACAGTACGGCATTGCCTCG
CTTGCCGTAATTTGTACTGTCTGCGGCTTCGTTGCCTTGTCTGATTAAATTTAATC
CACTATAGATTCCCACTTCCGTGGGAATGACGGTTCAGTTGCATTCCGACAAACACCGTAA
TCTTGAATCCGTCATTCCGCGCAGGCGGGAATCTATCGGAATGACTGAAACCTCGAG
ATTCTAGATTCCCACTTTCGTTGGGAATGACGGTTCAGTTGCGTTTCAACAAACACCGCAAT
CTCGAAATCCGTCATTCCGCGCAGGCGGGAATCCAGACCTCCGACGCGCGGGAATCTA
TCGGAATGACTGAAACCTCGAGATTCTAGATTCCCACTTTCGTTGGGAATGACGGTTCAG
TTGCGTTTCAACAAACACCGCAATCTCGAAATCCGTCATTCCACACAGGCGGGAATCCAG

Appendix A

-430-

ACCCCTGACGCGGCGGGAATCTATCGGAAATGACTGAAACCCCGAGATTCTAGATTCCCA
CTTTCGTTGGGAATGACGGTTTCAGTTGCGTTCCGACAACACCGCAATCTCGAAATCCGTCA
TTCCCGCACAGGCGGGAATCCAGACCCCTGACGCGGCGGGAATCTATCGGAAATGACTGA
AACCCCGAGATTCTAGATTCCCACTTTTCGTGGGAATGGCGGTTTCAGTTGCATTCCGACAA
CACCGTAATCTTGAAATCCGTATTCGCGATAACAGCGCAATCTTGAAACCCGTATTC
CGCGCAGGCGGGAATCCAGACCTCCGACGCGGCGGGAATCTATCGGAAATGACTGAAACC
CCGAGATTCTAGATTCCCACTTTTCGTGGGAATGACGGTTTCAGTTGCGTTCCGACAACACC
GTAATCTCGAAATCCGTATTCGCGCACAGGCGGGAATCTATCGGAAATGACTGAAACCT
CGAGATTCTAGATTCCCACTTTTCGTGGGAATGACGGTTTCAGTTGCATTCCGACAACACCG
CAATCTTGAAACCCCTCCGCGTTATAAAGACAAATCGCGGCACAAAAAATGCCGTCTGA
AATGCTGTTTCGCGGTTTCAGACGGCATTGCTCAAACCTTTATCAGGCGTAATGGCGCGT
TTCGCGCTTCTCCGCCGACATTCTCTGCACAGCGTTTCAGACGGTTTCATAGCCTGCAAC
CGCGCCACATCGCGGTTGTAGTGCCAGCAGCGTTTCGCAATTTTACCATCACTGGCTTT
AGCGGCAACGGCAAGTTTCGCTGCGCTACTTTCACTTCTGCTTTAGACACAGCAAAAGCAA
GGCGAATCTTTCGCCCAAAGCATTAGATAGCGCGCATTTCTTCCGGCGCGGTAATTT
GGCTTCCGGCTTGCAAGGACGAACCGACGGTTTTCGCGCGCGCAAGGCTCGATGGCGGC
GGTTACCGCTTTCGCGGCTTCGCGGATTGCGCTCCATTTTTCACCAAGTTTCGGCTTCGCT
TTTTTCGTTGATGGTCGGGAACCTCGTGCCAAGTATGGAAGAGGACGCTGTCTTCTTCGCC
GCCGCCGATGATGTCCACGCTTCTTCGCGGTTGAAGCACAAAATCGGTGCAATCAAGAG
AACCAAACTGCGTGTAGTGATACAGGGCAGTTTGTGCGCTGCGCGGTGCATGGCTGTC
TGCTTTGGTGGTGTAGAGCGGCTTTTCAGGATGTCGAGGTAGAACGCACCCAAAGTCTTC
CGAGCAGAAAGAAACAATGTCTTTTACGCGCAAAGTGAAGGCATAACGCGGATAGTAATC
GCCTGCCAGACACTCTTGCAGCTGACGTGCCAATACCACGGCGTAGCGGTTCGATTTCAC
CATATCCGCGCTGTTGACGCGCTTCTTAATCGGATTAAAGTCGCTCAAGTTGGCAACAA
AAAGCTCAAGGTATTGCGGATACGGCGGTAGCTTTTCGGTTACGCGTTTGAAGATTCTTT
GGAAATCGCAATTCGCGCTGTAAATCGGTAGATGCCGCCACAGGCGCAGGATGTCTGC
GCCAATTCGTTATAAACCCTTTCGCGGTGCAACGACGTTGCGGATGGATTTCGACATTTT
TTTGCTTTCGCGCTGCAACGAAACCATGGGTGACGAGCTGTTTATACGCGCGCGGAC
CATTGATGAGGCGCAGCGGTGACGATGGACGATTGAAACAGCCGCGGTGTTGGTCGCT
GCCTTCGAGATACAAATCAGCCGGCCATTCCAATCTTCGCGTTGTTTACAACCGGAATA
ATGGGTGAGCGCGGAGTCCGAACCATACGTCCTATTGTGTCAGAAAGTTTATCGTAATTTTC
GCAATCTTCGCGCTCAAGAGTTTCGCTCTTATCGAGGGAGAACACGCTTCGATGCCTTT
TTCCTCGATTTCAGGGCAACTTTTCCAAAAGTTTCGGCAGAGTTTCGGATGACGCTCGCC
CGTTTCTTTGTGAACAAAGAAAGTCAATCGCGCTGCCCAATAGCGTTGGCGTGAACACCA
CCAGTCAGGACGACCTTCAATCATGGCTTCCAAACGCGCGGACCCCAAGACGGGAAGAA
TTCGGTGTGCTCCACGGGCTTGTAGGCTTGTGCGCGCAGGGTTTTCGCGTCGGCACCGGC
TTTGTCCATACCGACAAACCATGACCTGTGCGCGGTAATCAGCGCGCTTTTGTGCGG
CCAGAGTGGGCGGAGTGTGTTTCGATTCTTACTGCTTGCCAAAAGTTTCGCGGTTTCTTC
CAACCATTCGAGGATGACGGGGTTCGCGCTCCCAAACGCGCATACCGGCGACACGCGCGT
TTCGCGGATGTATCGCGCTTCGCGGTTGACGGGGTTGTAAGCTCGATGCCGTATTTATT
GCAGACGCGGTAGCTTTCAAAACCGTGCAGCGGGGCGGTGTGTACCAAGCGGTACCGGC
ATCGGTGGTAACGTGTTTCGCGTTGAGCATGGGAATATCGCGTTTCGAGGAACGGATGGT
CATGTGCAGATTTCACGCTTGTGCGCGGTGGTTTCGGCGAGAATAGCAATGCCGTCTGA
AAAACCGTAACGTTTGAAGCGCTTCTTCGCAAACTTTTCGCAATACCAATTTGCCTTT
CGCGGTATCAATCAGTTGATACACACGCTGACCCCGCAGACACGGCTTGGCTCGCCGG
TAGCGTCCAAGGCGTAGTCGTCCAAATGACGGCAACGCTTTGCCTTCGAAACAGCCAA
ACCGAATGCGCGGCAAGCGCGGAGTGTCTTTAAACAGATAGGCAACGTCAATCGCGGG
CGAGATTGTTGCTTTGTTATTCGCTTCCGCTTCGCGCAGCGAAGAACCGCAGTCCAGCA
GAATTGAACCGGTTTCGACCCCGGTAGAGATAGCCGATTGTTAGATTTCGCGGAGCAT
ACGCACGGTATCGGCTTCGGTTTGAATCCATAGTCAGGTAAGGATGGTCCAGTCGCC
CAACACGCCCAAGCGGATAAGTCTTTTCTGACGGGCAATCTGTTCGGCGGCTATTC
GCGGCACAATTCGCGGAAACGTGCTTTGGGCATATCTTTGCGGTGCAGTTTCTACCAT
CACTTCGATGGGCAGGCGGTGGCAGTCCCAACCCGGCACATAAGGCGCGTCAAAACCGGC
TTGGGTTTGTGTCGGATAATGATGTCTTTGAGAATTTTATGACGGCATGACCGATGTG
GATGTGCGCGTTGCTATACGGCGGGCGCTCGTGCAGATAAATTTTCGACCGGCTTTGGC
GATTTTCGCGCAGTTTTCGTTAGCGTTTTCGCTCGTACCAGCTTTTCAGCCATGACGGCTC
GCGCTTGGCAAGATTGCCGCGCATCGGAAACGGGCTCTCGAGCAGGTTTACGGTTTTACT
GTAATCGGTCATTTTTAACTCTATTGTTACAATATTTTCGGTCTCAGACGGCATTGCGC
CCCAACAGCATTTACAACGGGAAAACCTGTGCCGTCTGAACAGTTAAAAGATTGATT
GTAGCCCAATCGGATGGTTGTATAAGGTTTTTCTACCAACGCTTGGCGCTTCCATATC
GGCTTCAATCTGCTTTTCAGTTCTTCCATACCGTCAAACCTTTCTCATCGCGCAGTTT
GTGACGGAAGCGGAGCTTGCACCTTGTCCGTACAGGTGCGCTTGAAGTGAAGAGGTTG
GACTTCAAGCTTTTGAAGACAGCGCTATCAACGGTGGGATTGAAGCCGAAACTCGCCAC
GCCGCGCGCGTGCCTAATGCGCGCTGCTTTCGACGACAAACACGCGCGGAGTGCATA
ACGGTGGCGGGGCGCGGATGTTGGCAGTCGGGCGGTTTAAAGTGCCTCCGAGTTTCT
GCCGTGACACACCTGCGCTCAAGACGTAGTCGTGCCAAAAGTTTTTTCGATAGGC
AAGGTTGCCGTGTAAGGGGCTGTGCGCAGGCGGTAAGTGTGCGGATGTCTTCGAC
GATGACGGAAGGCGTACGCTCGTTCATATCGGCTGTTGTGCCAAAAGTTCAAACA
GCCTTCCCGCCCCGACCGGAAACGGAAATCATCGCCGACGAGCAATAACGCGTATTCAA
GGTTTGACGACAGGCGGTGATAAACCTTTCGCGGATATTTTCGAAAAATTTTGATC
GAAACGCAAAACCCAGACGGCATCGACACAGCTGTGCTTCCAATAATTTCGAGCTTGGT
GCGCAGGGGGCTGATCCGACAGGTTGGCATCTGCGCGGTGCGGAGTGCAGAAAAATCTTT
GGGTTGGGGTTGAAACGACGGTCACGACGGGAGTCCGCGCGCTCGGCTTCGAGGCG
GAGTTTTTGGAGGATGTGTTGTGTCGAGGTGTACGCCGTGCAATTGCTATGGTTAC
GGCGGCACCTGTGGAAGTCGGGCGCGTTGTGCCGCCCCAGCCTGATTCTCATTTGTTGC

Appendix A

-431-

ATTCCGGGTATGTGGTGAACACAGGCGGTTCATTGTAACGGTATTGCGGTTTATAGACAGTG
TGCCGCCCGTTACGCCCGCCGACGCGGGGAAAGTAGGCAAAATTTCCCGCCGCCGAACGC
GCCAAACGCACAAAACGCGCAGCAGGCGCGGTGCTATGTGTGAACATCGCCCCAAC
CTGATGCAACATCAGTGAAATCGTTCTTTTAAACCAGGTAAACCGAGACAAACAACCC
TCCGCCGTTCATTCCCGCGAGGCGGGAATCCGGACCTGTCCGCACAGAACTTATCGGAT
AAAAACAGTTGCTCAAACCCGAGATTCTAGATTCCCACTTTCGTGGGAATGACGGTTCA
GTTGCGTTCCGACAACACCGTAATCTTGAACTCGTCATTCCCGCTCAGGCGGGAATCTA
GAACGTGGAATCTAAGAAACCGTTTGGCCGATAAGTTCCGTGCGGACAGGTCCGGATT
CCCGCTCGCGGGAATGACGGCATTTCTGCGGCAATCGGATTATTTCCAAACCAAAGC
GCGTGGTTGCGTTTGGCCGCGCAAGGATAGTGATTGCGGAAACGTTTGTGTTCCGCC
TTCAGCAGGCGAGGCATCGTCGGGGCGTTCGGCGCGCTGGTTGGGGTTGTTGGCTTCGGCA
GGTTTGGCGTTGAGCAAAACCGCTTGCTGTTCACAAAGCCGCGCGCTTCTTATTGGAG
GATGCCAAACCGGTTTACCAAGGCTTCGACGACATTGATGCCGTCTGAACTTCAAAT
GCAGGACGCGCGTCGAGGGCGAGCTGCTCGAAGTCGCTTTCGGTCAGGCTGCTTTGGTCT
TCGGCAACAGGCTTTCGGAATGCGTTGCGCGCGGCAAGGGCTTCTTCGCCGTGAATC
AGGCGGGTCATTCTTCGCGGAGGATGCGTTGCGCTTCGGGCTTGTGCGGCTTGCCTTG
TCTTTGGCTTCGATGCGTCGATTCTTCGATGGACAGGAAGGTAAGTATTTCAGGAAT
TTATACACATCGGCATCGGCGACTTTCAGCCAGAATTGGTAGAACTGATAGGGCGAGGTT
TTTTTCGGCTTCAGCCATACCGCGCGCTTCGGTTTTCGCAATTGGTACCGTCTGAT
TTGGTTACCAAGGCGAGGTTCAGCCGAATACCTTGTTTTGGTGCAGGCGCGGGTCAGG
TCGATACCGCGGTGATATTGCCCATTTGGTCGAGCGCCGATTTCCAAACCGCGCGG
TGGCGTTTGTTCAACTCGCGCAAGTCGTAACCTTCAGCAGGGAATAGGCGAACTCGGTG
AAGGAAATGCCTGCGCGCTCGCGGTTCGATGCGCTGTTTACGGATTCTTTGTTTCAGCATG
CGTTGACGGAGAAATGCTTTCGGATGTCGCGCAGGAAGTCAAGGCAGTTATGCTGCGG
AACCACTCGGCATTGTTGCGCCATAATGGCGGCATTTCGGCTTCAAAGCTCAAGAAAGGG
GTTAATTTGGTTGCGGATACCTTTCACCCAGCGCGCAACAGTTTCGGCGGAATCAAGCTG
CGTTTCGGCGCTTTGAAGTCGGGTGCGCGATCATACCGGTGCGCGCGCCCAACGAAGCA
ATCGGCGTATGCCCGCGCTGTTGGAAGCGGCGCAATGCCAATACGGGCGAGGAGTCCG
ATGTGACAGGCTGTCGGCGGTTCGGTTCGAAGCCGCAATAAAGGGCAATTTTTGTTTCGTT
AACAAAGCGTCTAAGGCTTCGATGTCGGTGGTTTGGCGGATAAGGCGCGCGATTGCAAG
TCTTGGATGACGCTCATCGGTCTCTTTCAAAAAAATAGCGTTTTTGCAGAACCGCGGAT
TGTAACAAATTTAAGCGAATCAATGTTATGGCGCTATCGAGAAACCGTTGTTTTTCGG
AAAAACGCTTTGCCAATTCGTGCGCGCTAAGGGTTGATGTGGTCTTTGTCCGAGTAAA
CCGGCAATCCGCGGATTTGAAAATCTGCGGGGATATAGGCGCGGCATCAATAATATAGA
CGTTGGGGTATTTGGCTGCCAATTCCTGATGCGTGCATTGGCTTTCAGGGTGCTTTCGT
CGTCCGGGCGCAGGGCTTGGCGGTAACCGGTATGCGTGAAGACAAGATATAGGCGCGCT
GGAGCTTGAAGACGAGGCAAGGTTGTCGCCATCAGGTAACCGCTGTTTTCGGACG
AGAGTTTATGACGATACCGTTCGAATTTTGGAAAAACCGGCATCATAGGCAAGGGAGC
GGCTGTTTTCGGGCATTTGGCTGCCCCAGCGCATCGCCAAACCACTTTTGAATACCGGG
GCAGGTGTTCTTCGGCATAGCGATAAACGGCGCGCGCAGGCTGCCAGTTTGGAAACACAC
GGGACGCGTATGCTTCCATATAGGCGCAAGCGTCGCGGGAACCATAGTGCGGAGCAATT
TTTCTTTTTTGGCCACGGCATCGAAGATGTTTGTATGGTCGGCGTGGGAGTCGCCCA
AAACAGCAGTTTCGGCTGTTTTCCGTATCCCCCATAGGCATTGTTTGGCGGTATGTT
TGTGGCAGGAGTGTGGAAGCGGTTCAGCCCCAAGCGGTGATTGCGCCATAAACGGCA
GTCTCATCGCAAAAAACGAGCCCGCCCCAAAATGAGCATAGGCAAGGCATAAATCCATA
AAACGGATTGTGCGAACGAACCTTGCCATTTTTTAACGGTTTTCGATGCAAGTGGTAAG
AAAAACGGGAAAGCAGCAATATCAGGACGACCGCGCGCGCGGCAATAAGGCGGAGGT
TGTCGGGCGGATATAGGCGATAAAGGCCAATATCGGCCAATGCCACAGATAAAGCGAAT
AGGAAATCAAACCGGCGGCAACAGTGATTTTCGATTGGAATAATTTTAAAGCGGTGTT
CGTAATGATTGAATAATTCAGCGCGGCAACAGCCAGACAGGGAATCAAAGCGCGGGGCG
CCGGGAAATAGGCGGTTTGTTCGAATAGGAAAACAGGCAAGTTGACAATATGCACACGG
CAAACAATGCGCGGACGCGGCGCACAGCGTCTGCCGACGGCAGGTTGCCGCGAGCGCATCC
ACACGGCGGTGACGCGATCTATCAGTAATTCGACAGGCGCGCAGGTGGGGCAGGTAATATT
TATCGAGCGCGAAGGTATAAAGGAGGCGCAAGGCTTAAGGCACACAGTGCGGCAAGGA
AGCCGAAGTGTACCGCGAGGCTTTTGGGGCGACAAGCAGCAGCAGTATCGGAAAGACAA
AGTAAAATTGTTCTTCGACCGACAAAGACAGATGTGACGAGGGGCTTTTCTCTCTGCG
CGGGATCGAAATAATCCTTCCCCCTTGCAAAATACAGGTTAGAGGGCAAAACCAAGGCGG
TCAGCGCGGATTTCCACAAAAGAAAAGAAATCATCTTGGTGAATAAAAAGAAAGCCGCTG
CCAGCGTTGCCGCAATACGGCGAAAAATGCGGGCAGAAATCCGCTTGATGCGGCGGATAT
AAAATGCCCTTCAGGGAACCTCCCCCCCCCCCCGACATTTCGCGGTGAAGAATCGTCG
TATCAAAAAGCCTGAAATCACAAAGATATATCGACACCGAGAAACCGCGCGGAGCC
AATCCTTTTCGATATGGAACACGATGACGGACAAGACGGCGGCGCGCAATGTGTGCA
TGTCGGGCGGTAGGGTAAGGCTTGCTCATATGTTTATAGTGGATTAACAAAACCC
AGTACGGCGTTCCTCGCTTGGCTTACTATCTATACTGTCTGCGGTTTCTGCTGCTTGT
CCTGATTTAAAGTTAATCCATATACTCGAAACGCGGCGGCAAAATGCCGTCTGAAAGG
TCATTTCTGATCGGGGATCGGGATATTCGGAATGCCGGACGGCTTCCCGTAACGGCGGGG
CAGGCGGTTTGTGTCAGGAATCGGGAGGGCAATCGGAAATGCGGGTGGGAGTTTAT
TTGATGCGGCTGCGGCTACGGCGGTACGGGAAACGCCGAAATCATCAAAATCGGCTTCA
GACGGCATTTCCGGCAAGCGCGCTGAAACCTGCCGCTTTGGGTTACACGTTAAACAAAA
AGTGCATCACATCGCCGTCTGACACGATATCTTGCCTTCCACACGCATTTGCGGG
CTTCTTTGGCTTTGGCTTCGCGCGGAGCGAGACAAAGTCGTCGTAAGAAATGACTTGGG
CGCGGATGAAGCCGCTTCAAAATCCGTATGAATACGCGCGCGGCTTGGCGCGCGGTG
CGCTTTTGTGATCGTCCACGCGCGGACTTCTTTCACACGGCGGTGAATAGGTTTGCA
GCCCAAGAGGTGTAACCGGCACGAATCAGGCGGTTACGGCCGCTTCTTCAAGCCCA
TTTCGGCGAGGAATCGGCTTTTTCTGCTGCTTCCAATTTCGCAATTCGCTCTCCATCG

Appendix A

-432-

CGGGCGAAACGGCGACGACGGGGGCGTTTTCTTTTGC GGCCAATTCTTTCAGGCGGTCTGA
GGTGCGGATTGTTTTCAAACCGTCTTCGGCGACGTTGCCACATACATCGCCGGTTTGG
CGGTCAGCAGGAACAGCGGTTTGAGCATCGCGGTTCTTCCGCGTCAAACCGAAGGAAC
GCACGGGTTTGCCTTCGTCCAGATGCGGCGAGTTTTTTGACACAAATCGACCAGCTTTT
GCGCGTCTTTGTGCGCTGAGCGGGCGGTTTTCTTCGCGGACGATGGCTTTTTCGACAC
TTGCCAGGTTCGGCAAGTGCCAACTCTGTGCCGATGGTTTCAATGTCGGCAATCGGATCGA
CGCGGCTGCAACGTGGACGATGTTGTCTGTCGTCAAAGCAGCGCACGACATTCACAATCG
CATCGGTTTCGCGGATGTTGGCAAGGAACGTTGTTGCCAAGCCCTCGCCTTTGCTCGCGC
CTGCAACCAAACCGGCAATATCGACAAATTCGACGATGGCAGGCTGCATTTTTCGGGAT
TGACGATTTTTCGCAATTCGGCCATACGCGGATCGGGGACTTCGACGATGCCGACGTTGG
GTTTCGATGGTACAGAAAGGATAGTTTGCCTTCGATACCCGATTGGGTACGCGGTTAA
AAAGGGTGGATTTCGCGACGTTGGGCAAAACCGACGATGCCGCATTTCAAATCATGTTTT
TTCCTGAAAATAGAGAAATTTAACGGCGGATTATAGCATACCGCGCCCGGCTTCCGAAA
AAATGCCGTCTGAAACGGCTTCAGACGGCATCCGGTTTCAGAAAACCGTTAGAACAGC
CGTGAATCAGCGCTTTCGGTCCACATCGATTTTTCGGCAGCCGGAACCTTGGGCGAGG
CGGGCATTTTCATCATGTTGCCGACAGGGCGACGATGAAACCTGCGCCTGCGGAAACGG
TGATGCCGCGCACGGCGATGCGGGAAGTCTTCGGGCGAGCCCAACAGTTTGGCGTTGTCGC
TCAAAGAGTATTGGGTTTTTCGCCATGCAGATCGGCATTTTGTCCAAGCCAGTTTTTCCA
GTGAAGCGATTTCGGCAGACGCTTCGCGCTGAAATCAACATCTTCGCGCGCTACACTT
TTTGGGCAATCGCACGGATTTTGTCTTTGATGCCAACTCGACATCGTAGGCGAAACCGA
AGTTATTGGTTTTGACTTTTCAATGGCGTTGACGACTTTCGCGCGCAAATCCGCGCCCGC
CACCACCTTTGCCCCACACTTCGGTTCAGGAAACTTCAACGCCGTGTTTCGGCACAGGCTT
TTTCAATCATCGCAACTCGGCATCGGCGTCGGACACGAAGCGGTTGAGCGCAACGACGA
CGGGCAGTCCGAATACGTTTTTTCAGGTTGAAATGTGTTTCAGCAGGTTGGGCAAACTT
TTTCCAAGCGTCTAAATTTTCTTCGCGGAGGTTGGCGGTTCCACGCCCGCTTATATT
TCAACGCGCGGACAGTCGCCACGACAACAGCCGATCAGGTTTCAAACCGGCAAGGCGGC
ATTTGATGTCGAGAATTTTTCGCGCCCAAGTTCGCGCGCAAGCCTGCTTCGGTTACGG
CGTAATCGGCAAGGTTTTCGCCAGACGGGTTGCGGTTACGGAGTTGCAGCGTGGGCGA
TGTTGGCGAACGGGCGCGCTGTACGAAGCGGGCGTGCTTCGATGGTTTTGCACCAAGT
TGGGCTTAATCGCATCTTAAAGCAATGCCGCCATCGCGCCATTTCGCTTTCAAATCTTTGG
CGTAAACGGGGCTGCGCTCTTTGGCGTAGGCGACAAGGATGTTGCCCAAACGCTCTTTCA
AATCGCTGATGTCTTTGGCAAGACAGAATACCGCCATCACTTCGGAAGCAACGGTAATAT
CGAAACCGTCAGAGCGCATCACGCCGTCAACGGGTTTACCCATGCCGTGATGATGTTGC
GCAACTGGCGGTGCTTCATATCGACCACGCGCGCCACAGCAGCGGTTTGGGTCGATGT
TCAACTCGTTGCTTGGTAGATATGGTTGTCGAGCATCGCGGCAAGCAGATTATTTGCCG
CACCAGTGGCGTGAAATCTCCGCTGAAGTGCAGGTTGATGCTTCCATCGGCAAACTT
GGGCATAGCCCGCGCTGCCGCGCGCTTTCACGCCGAACACCGGCCCCAGAGAAGGT
CGCGCAGGGCAATCAGGCGATCTTTGCCGATGTGGCGCAACGCGTCCGCCAAACCGATGG
TTACGGTGGTTTTGCTTCGCGCGCGGAGTCGGGTTGATGGCGGTAACCAAAATCAGCC
TGCCCTGTTTTTCGGCGAGTTTGAACGCTTCGGCAGGATTGATTTTCGCTTGTAAATGAC
CGTAAGGCTCAATGTTGTGCGCATTCAGACCAAGCTTGGCGGCAATTCGCCAATCGGGC
GCATGGTGGAGGATTGGGCGATTTCGGCATCGGTTTTGAAGCTCATGATTTTCTTTAGA
AATGAGGAGGACATGCCCTCTGAAAGCATCAGGCGACAACAGGTGGATTGAAAATAAT
ATCAGGCATATTATAACGTTATCCGCACCAACCCGCAAGTGAATTTTTCGACGAGCAAC
AAAAATACCGTTTCATATTGTTTCACAATCCAGGAGAAAACATGGGCGAGCAACGATGGCT
GTTTTGGGCATTGGCATCGGCAGGCTTCGCCTCATTCAGCCGCTATTTTCGCCAAAATGGG
TTTACAGGGTATAGATTCGGATTTCGCCACCTTTATCCGCACCTTGGTCATCCTTGCCGC
TTTGTATTGTTTTTAACCTACACCGGCAATGGCAGGTTGTAACGGCTTACGGGGCG
CAACTGGACATTCTCATCTATCCGGTCTTGCTACCGGCGCATCTTGCTCGCCTATTT
TAAAGCCTGCAACTGGGCAACGCTTCGCAAGTCGCCCCATCGACAAATTCAGCCTGGT
CTTGCTCGCGCTGATGCGGTTGTTTTCTTGGACGAACGCCGAACACGAGGAATGGAT
AGGCTTGGGCTGGTAACGGCGGGCGTGTGGTGTGGCTTGAACGTTAAACCGAATC
CGCCATACCGTCTGAAACCGGTTTTTACTTCCAAGCCCTGCAAGGGCTTGAGCCTCTT
TCAGACGGCATACCGTGCCGACATCCAGCCACAAGCCGATGCTTCTGACCGCTCACGC
GGTTTTGCGCATTTTCGCCACGCAATACGGGCGGAGTTTCGCCACACTGCCCGCTTCGA
TTCCGTCAAACATTTTCAGGACGGTAAATACCCACGCGCTGAATGTCAATCCGTTGCCG
CATTTACTTTCGGCCGACGCTGCTGTGCGGCGAGGGAATAATCGCCGTGGGGTGTG
GCGGCGGATTTTCACACAGCCACAGATGGGCGGAAATATGTTCCGGCAGGGACGATGCCG
TCTGAAACGCGGCGGTAATAATCGATGTCGGTCAGCAGCTCGCCGTTGACCACCAAAACG
GCTGCCACCCAAACAGCGCAATGCCTGCGCGATGCCGCTGCCGTTTCAAACCGCGTG
CGGGTTCGGGCGAATAGGCGATGTTACGCCATAAGCCGAGCCGTCGCCAAAGCATCTT
CTATCTGCCAGCCACCGCTGTTGATGACGATTTTCGGTAAACCCCGCTGCTTCA
GACGGCATAGGTGCCAACCGATTAGAGGCTTACCCGCCACATCGAGCAGCGCTTCGGAG
TGGTATCGGTCAAAGGGCGCATACGCTCGCGCGCTCTGCCGCCAGTATCATCGCTTTCA
TATATCTGTCGGAATATCAGTCTAAAAATCTAAACTGCCGCTGAAATACAGCAGCGCG
GGCGTTTTGCACCCGAGTTTTTGTATTTCGTCGAGCTGACGTAACACAAAAATGCGTGC
CGATTTTCATGTTTTCGCGCAATATGCCGTCGAGGTGCGGCAACGCGCCCTTATTTCAA
GTTGTCCCGTTTTTCGCGGATGCCAGATGTGGTAGGCAACCGCTCTTCGGGCGACAGG
CGGTACGCCCGGCAAAATGTTTCGGCAACATCCTGATGTTTCGTCGCCGACGCTATTGATGC
AGAGGCTGCCGTTTTTCGACAGGATCGGAATGATTGCGGCACTCCGGTTGATGCACAGCA
TCACGGTCGGCGGCTCGTCGGTAACGGGCGGACCGCCGCTATTGTAATGCCGTAACGCC
CTGCCGACCGCTGTGTCGGTATGACATGAACGCTCGCGCGCAAGATGCCATCGCATCAC
GGAACGAAGTTTGAATAATTTTCTGCAATCCGCCATTTTCCCCTTAAACTGTCCCT
ATATAAGAAATGCTGCACACAAGGCATCCCCATGTGCGAGCAGTTTTGATTCAAAAAGCCG
TCGGTCGGACGTTTTCCGCGGCTTACGGCGTATTACGAGTTCAACGCATCCTCGATTTTGG

Appendix A

-433-

CAAGTTCTGCCAACAGGTCTTTAAGCAGCAGCATTCTTCGCGGCCAGCACTTCCTCGA
TAGCGTCGTAGCGTTTCGTCCACTTCTTCGCGGATTTCTCATACAGCTTCTCGCCCTCGG
CAGTCAGCTTCAGAAAAACAGTCGTGTTGGTCGTTGGAAGTTTCAGGCGGACAACCAAC
CCGCTTTTTCAAGGCGGGTCAGGATACCGGTTCAGGCTGGGGCGCAAAATGCACGCTGAT
TCGCCAAATCTTGAAAGTCCAGCGTGCCGTTTCCGCCAAAAGACGGATAATCCGCCATT
GCTGATCGGTAATATTCGCTGATTGAGAAATAGGCTGAATTGGGTCATCAGGGCTTCCC
TTGCCTGTATCAGACCGATATTGATAGACGATGTTTGGATTGGGTAGGCATTGTTTAAAG
TCTCAAAGTTATCGAAAATCAAACCTTTCAAACCGTCGGGAAAGCCTGTGGGCGTAAATTT
TGATGCAACCGTTATATAACAAAACGAACATATAGCAACAATACGCTATAAACCGCATCG
GACGACTGGGTATAAAGACTTTAATTCGGATAATCTATCTAAAAATATTTAATAGTT
ATATCTTAATCTATTTTTCCACAAATCACAACAAGGGATTACATCGGCAGGCGCGTCGGC
TCTTTCCCAAAAAACAAAAGCCGCGCATCCGCCGCGCAAGGCATATGCCGCTTGATTCT
CTACATAGCGGAAAAATTTAATAAAAAACAAAGTTAACCGAAAACATCCGCCGCAAAATTT
CGTGCGCGCAAGCCCCAATAACTGCTGATTCCCGTCGTATAGTGAACCATTTTCCCATTT
TTGACCAAAACGACGCGCAGGCGTTGCGACAATCCGCCAAGACCTTGCCAAACCCCCGTC
TCATCGTTGACAGTCGGAAGCCCCAAGCCGCGTTTGGCATATACGCCGCCACTTCCGCC
GAATGCGCGCAAGCTACCGCGCACGCGGACGACCGGCACGCGCTCCGCCGCAAAATCATCG
ATTATCGGGCAGTGATAACGGCACACGCGCACCGCTCCCCAAAAATACACCAAAACC
GCCTTATCTCGGCTAACTGTCCCAAAGTCAGCCGCTGCCCGACAGCAGGGTCAAAGGC
CGCCCTGCCGCGACCGCGCGCTTCTCGGGCTTGGTATCCAATCCAAAAACGCGACACC
AATAAAAAACCAATGCCGCTGAACGGCAAAATTTGATGCCGAAAGCAGTTCTTTTTTC
ATACGCTCTCTCAAACGGTACGCCGCGCAACCGGCAGGCAACAAAAAGCCAAGTCTCA
AAACTTGGCTTCGGTTATCTGGTGGGTCGTGAGCGATTGAAACGCTCGACCAACGGATT
AAAAGTCGCTGCTCTACCGACTGAGCTAACGACCGGATAAGCCGTGCAATTATACAGCAC
CATCTACCTCGTCAAGCAATTTTACAGGCTTAATTGCAGACCACTGTTTGCACGGGAT
ATTTTGACAACGGATTTTCACAATCCGCCGATACCGGTGTAAGTTTCGCAACAGGAAAA
GCAACCGCGCGCAATCAATGTACACTTTCCGCCGTTTCCCTTCCCAACCTGCACACAG
AAACACACATTATGAACATACAAAACATCCGCACCCCTCCTCGACACCGTCGCCGTTCCGA
ATACGGCAGCGACGCTCGCGCGCGAAAAAGCCGTCGGTTCGATCGAACAGCGTTGAGCG
GCATCCATATCGCCCTGCATTTCGGCTTCCCGTCGCGCACATTGCCTCAGAAACAGCCG
ACCGCATACAGGAAATCCTGATGCCGAAACAGGCGACACACATCCATCTGTCCATGG
ACACTGAAATCGGCACACAAAGTCCAGCCGCGGTACCACCATCAAAGCGGTGAAAA
ACATCATCGCCGTCGCATCGGGAAGAGCGGCGTGGGCAATCGACAACACCGCCCAACC
TTGCCGCGCGCAATGGCGCGCATGGCGCGCGCGTCCGCGTGCATGCGGACCTTTACG
GCCCCAGCCAACCGACCATGTTGGGTGTGGACGACCGCAACCCGATCAGAAAAACCAAA
AACTCATTCGGTCGAATCTTACAGCGGCATACAGGTGATGCTATCGGCTTCTCGTCG
ATACCGACCAAGCGGTGCTGTCGGCGGGCGGATGGTCAGCCAAGCCTTGACGACGTGA
TGTTCCAAAGCGAGTGGGACGAAGTGGACTACCTGTTTATCGACCTGCCCCCGGCACGG
GCGACATCCAGCTCACGCTGTCCAGCGCATCCCGTAACCGGTTCCGTCATCGTAACCA
CGCCGACGACATCGCCCTGATAGACGCGCGCAAGCCGTGGATATGTTCCGCAAGTCA
ACATTCCTGTTTGGCGGTATTGGAATAATGTCCTGTCACATCTGCACCAACTGCGGAC
ACAGCGAAGCACTGTTCCGCGACGACGCGCGCAAGATTTCCGCCGACGCTCAACGTCC
CCCTGCTCGGACAGCTTCCCTTAAGCCTGCCCGTGCGCGAAGCCATGGACGGCGGCACAC
CGGCGCAACTGTTTCGACGAAACACCCCGCCATCGCCGCAATCTACACCGATGCGGCATTCC
AAATCGCCCTGAGCATTGCCGACAAAGGCAAGACTTCAGCAGCCGCTTCCCCAAATCG
TCGTGCAATAAAGCCGCGTCCGAAACCGCAACAGCAATGCCGTCCCAAGCCCGCGCGCTG
CCGGCGGGCAAACTTCCGGGATAAAACCGTTTTTTTGAGATTTTACGTTCCGGATTCCCG
CCTGCGCGGGAATGACGAATTTTAGGTTTCTGATTTTGGTTTCTGTTTGTAGGAATGA
TGAAATTTTGTAGTTTGTAGGAATTTATGGAATAACAGAAACCGCTCCGCCGTCATTCCC
GCGCAGCGGGAATCTAGACCTTAGAACAACAGCAATATTCAAAGGTTAGCTGAAGCTTT
AGAGATTTAGATTCCCACTTTTCGTGGGAATGACGGGATGAGGTTTCGTGGGAATGACG
GGTGCAGGTTTCCGTGCGGATGGATTCTGTCATTCCCGCTAGGCGGGAATCTAGACCATT
GGACAGCGGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTAGATTCCCACTTTCGT
GGGAATGACGGGATGATGTTCTGGGAATGACGCGGTGACGTTTCCGTGCGGATGGAT
TCGTCAATTCGCCGCGCAGGCGGGAATCTAGACCTTAGAACAACAGCAATATTCAAAGGTTA
GCTGAAGCTTTAGAGATTCTGGATTCCCACTTTTCGTGGGAATGACGGGATTTGAGATTGC
GGCATTATTCGGAATAAACAGCAACCGCTCCGCCGTCATTCCCGCGCAGGCGGGAATCCA
GACCTTCGGATAACAGTAATATTCAAAGATTATAAAAGACCGCTCATTCGCCGCGAGGCG
GGAATCCAGACCTTAGAACAACAGTAATATTCAAAGATTATAAAAGACTCGTCATTCCCG
CGCAGGCGGGAATCCAGACTGTGCGGCATCTGCAGCGGTTTGCTAAAAACGCTTTACCG
TGATCAGTGTGCAAGTTAAATGCGGAGGTAAGCTTTTCAATCAGCAATCCGGCGGGCG
CGGGATCGGGCGGTTTACCGAACCCTCGGTTTCGCGCGCGCCTGCCGCGCAGCGTATCC
CGCGAAGCAAGATTAAAGGATAAAATATGTTCCAACACGAGGCGGCGACATAAGGCGC
CGCCCTGATTCCGAAGGGCTTGACCCCTCCCGGACAAAGCCTGATCCTGCCGCCCCGAA
GGACGGATGCCCGAAGGCGGGGGGTTTGACCGAAAGGAAATACGATGAATAAAACTTT
AAAAAGCGGGTTTTCCGCCATACCGCGCTTATGCCGCCATCTTGATGTTTCCCATAC
CGGCGGGGGGGGGGGGGCGATGGCGCAACCCATAAATACGCTATTATCATGAACGAGC
AAAACCGCCCAAGGTAAGGGGAATGGCAATATCAACAATAAAGGACAAAGACAGG
AACGCAAAATTTATCTATAATAAAGCGGCGGGGTGGAGGCTCTGTCTTTTCGACAATA
CCGATACCCCTGTTTCCCGACAAAGCGGTAAGTCCGCTTTTGGCACAGCCACTACCTGC
CGCCTACGGCAAGGTTTCCGGTTTGTATGCCGACGGGCTGAAAGAGCGCGCAATGCCG
TTAATTGGATTCTATACGACCCAGGCTTGTATAGGCTACAGCTACACAGTGTCTGAT
GCAGAGACAGCAGGCTGTCCCAAACCTGTCTATAAAACCGGATTTCCTTCGACAACA
CCGGTTTGGCAAAAAATGCGGGCAGCCTGGATAGGCACCCGGACCAAGCCGCGAAAAAT
CGCCCATTTACAAATTGAAGGATCATCCATGGTTGGGCGTGTCTTTCAATTTGGGCGAGG

Appendix A

-434-

AGAATACCGTCAAAAATGGCAACTCATTCAACAAATTGATATCTTCTTTTAGTGAAGACA
ATAATAATCAAAACCATCGTCTCTACGACAGAAGGCTCCCTTATTTCCCTTGGCGACCAGC
AGCGCGAACATACCGCGCTGGTCTATTATCTGAACGCCAACTGCACCTGCTGGACAAAA
AAGGGATTAAAGATATACCGGCAAAACAGTGCGGTTGGGTGTCTTGAAGCCGAGCATCG
ATGTGAAGACACAAAATACGGGGCTTGGCGGCATTCTAGCTTATTGGGCTAGGTGGGACA
TTAAAGATACCGGGCAGATTCCAGTCAAGCTCGGCCTGCAGCAAGTCAAAGCAGGCCGCT
GCATCAATAAACCGAACCCCAATCCCAACAAAAAAGACCTTCGCCGGCCCTGACTGCCC
CCGCGCTGTGGTTTCGACCTGTGAAAGATGGTAAGGCGGAGATGTATTCCGCTTCGGTTT
CTACCTACCCCGACAGTTTCGAGCAGCCAAATTTTCTGCAAAACCTTTCCCGCAAGGATG
ACACAAGCAACCGGGCCGCTATTCCCTCAAACCTTGAGTACGTCGGAGATTAAAGTA
AAGAGCCGAGTTTCACGGGGCGGCAACCGTCATCCGATTGGATGGCGGCTACGGCATA
TCCAACCTGGATAGAAACATGAGGCCACCGGTTTAAATGGAATGACGGCAAAAACGACA
CTTTCGGCATTATTAGAGAAGGGAGCTTCATGCTGATGCCAGCGAGTGAAAAAGTAT
TGCTGCCCTTGGACGGTTTCGGGGTTTGTCTGATGACAGTAAATTTAAAGCATCAACAAAG
AAGAAAAACACGACAACAGCCAAAATACAGCCAAAGATACCGCATCCGCGAAAACGGCA
AGCGCGATTGGGCGACATCGTCAACAGCCCGATTGTGCGGGTCGGCGAGTATTGGCTA
CTTCCGCAACACGCGGATGGTGATATCTTCAAAAAAGGCAACGGGGACGCGCGGACT
ATAGTCTGAAGCTCAGTTATATCCCGGGCAGGATGCCGCGCAAGGATATTCAAACACCG
AATCCACCTTTCGCAAAAGAGCTGCGCACCTTTCGCGAAAAGGCTATGTGGGCGACCGCT
ATGGCGTGGACGGCGCTTGTCTTGGCGCGATTACAGATGACCAAGACAAGCAAAAAC
ACTTCTTTATGTCTCGGCGCAATGGGCTTTCGGCGGAGAGGCGCATACGCTTGGATTAA
GCAAAATCGACAACAGCAACCCGGCCGGCGTTTCCATGTTTGATGTCAAAAACGACAATG
GCGTGAATTAGGCTACACCGTCCGTACGCCGCAAAATCGGCAAAACCCACACGGCAAAAT
ACGCCGCTTTCCTCGCTTCGGTTATGCGACTAAAGACATTAAACAGCGCGAGAATAAAA
CCGCGCTGTATGTGTATGATTGGAAAAACAACCGGTACGCCGATTGCAACAATCAACG
TACCCGACGGCAAGGGCGGGCTTTCGTCCCCACGTTGGTGGATAAAGATTGGACGGCA
CGGTGATATCGCTATGCCGCGACCGCGCGGGAATATGTACCGCTTTGATTGAGCA
ACAACGATCCGACCAAAATGGTCTGTACGTACTATTTTAAAGGCACGCTGGATAAGCCGA
TTACCTCCGCGCCGCGCTTTCCAAACCTGAAAGACAACCGCTGGTTATCTTCGGTACGG
GCAGTGATTGAGTGAGGATGATGTTGATAAAAAGGATATACAATCTATTTACGGTATTT
TTGACAAATGACACAGGCACGGATGTGGCAGAAGAAGGACAGGGCAAGGGTTGCTCGAGC
AACACCTTACTCAGGAAGATAAAACCTTATCTCTGACCGATTACAAGCGATCCGACGGCT
CGGGCGCAAGGGCTGGGTAGTGAATTTGGAAGCCGGACAGCGCTTACCGTCAAACCGA
CCGTGGTATTGCGGTACCGCTTTGTAACCATCCGCAAAATATAACGACGGCGGCTGCGGCT
CGGAAACCGCCATTTTGGGCATCAATACTGCCGACGGCGGCAAGCTGACCAAGAAAAGCG
CGCGCCCGATTGTGCCGAAGCCAAATACGGCTGTGCGCAATATTCCGGTCATAAGCAAA
CCGCCAAAGGCAAAATCCATCCCTATAGGTTGATGTGAAAAACAATGAAACCGTCTGCC
CGAACGGATATGTTTACGACAAACCGGTTAATGTGCGTTATCTGGATGAAAGAAAACAG
ACGGATTTCACAACCGGCGAGCGCGATGCGGGCGGCGAGCGGAACATTCAAAGAGGGTA
AAAAACCGCCGCAATACCGGTGCTTCTCCGGAAGAGGTGTGCGCACCTTGCTGATGA
ACGATTTGGACAGCTTGATATTACCGGCCGATGTGCGGTATGAAACGAATCAGGTGGC
GTGAAGTCTTCTCTGATTTCACGCGAAAATGCCGTCCGAAAGGTTTTCGGACGGCATT
TTTTGCGTTTTTCGGGAGGGCGGGTTCGTAAGGCGGGCTATAGGGTAGGCTTCATCT
CGCCAATCTCACTGAATCCGCAATTTCCACAATTCAATTAATACCGTCAAACCGATGC
CGTATTCCCGCGCAGGCGGGAATCTAGACATTCAATGCTAAGGCAATTTATCGGGAATG
ACTGAACTCAAGAACTGGATTCCCACTTTCGTGGGAATGACGGGATGCAGGTTCGTGG
GAATGACGTGGTGCAGTTTCGTAGGAATGACGTGGTGCAGGTTTCGGTGGGATGGATT
GTCATTCCCGCGCAGGCGGGAATCCAGACATTCAATGCTAAGGCAATTTATCGGGAATGA
CTGAACTCAAAAACTGGATTCCCACTTTCGTGGGAATGACGGGATTAGAGTTTCAAAA
TTTATTCTAAATAGCTGAAACTCAACGCACTGGATTCCCGCTGCGCGGGAATGACGAAG
TGAAGTTTACCCGAACTTAAACAAGTGAACCGAAGCAACCGGATTCCCACTTTCGTG
GGAATGATGGGATTAGAGTTTCAAAATTTATCTAAATAGCTGAAACCAACGCACTGGA
TTCCCGCTGCGCGGGAATGACGAATTTTAGGTTTCTGATTTTGGTTTCTGTTTTGTA
GGAATGATGAAATTTTGAATTTTAGGAATTTATCGGAAAAACAGAAACCGCTCCGCCGT
CATTTCCCGCGCAGGCGGGAATCTAGGACGTAAATCTCAAGAAACCGTTGTACCCGATAA
GTTTCTGCGCGGACAAACCTAGATTCCCGCTGCGCGGGAATGACGGTTCAAGTTCGTAG
GACTGGATTGTGAAAAGGGCGGATTTCGGTGAAGACGGCGGAAATGTGGGATTGATGGAA
TCGGTGGGCTGAAGCCCTCCCTACAGAGCTTTCAGACGGTATGTTTGCCTTTTCGGAT
GGGGGCAAAATGAAACACCGACAAACCGATACCGTCATTCCCGCGCAGGCGGGAATCTAGA
CATTCATGCTAAGGCAATTTATCGGAAATGACTGAAACTCAAAAACCTGGATTCCCACT
TTCGTGGGAATGACGATTTCGGACATTCTTAAACTACCGGTGATCGCTGTAATCTTAG
AGATGGAGGAATAAAGACCGTTGGGCATCTGCAGCGCTCATTCCCGCGCAGGCGGGAATC
TAGGATGCGGAATCTCAAGAAACCGTTATACCCGATAAGTTTCTGCACCGACAGGTCTGG
ATTCCCGCTGCGCGGGAATGACGATTTCGGGTATTTCTGACGGTTTCGGGCAATCCCGACA
AGGTGGATTTTCAAGGTGTTGATAGGGTGTAGGAGGATTCGTAAGGTTGAGTTATAGG
GTGGGCTTACGCCACCGATTCCAACGATTCCACCAATCTACACCGTTCCCATAGACTC
AAATCAACACAGAACTTATGCGCGCTCATTCCCGCGCAGGCGGGAATCTAGGATGCGGA
ATCTCAAGAAACCGTTATACCCGATAAGTTTCTGCACCGACAGGTCTGGATTCCCGCTG
CGCGGGAATGATGGTTTCGGGTATTCCTGACGATTTCGGGTATTCCTGACGATTTCGGGTATT
CCTGACGATTTCGGGTATTCTGACGATTTCAGGTATTCCTGACGATTTCAGGTATTCTGAC
GATTTCAGGTATTCTGACGATTTCAGGTATTCCTGACGATTTCAGGTATTCTGACGATTCA
GGTATTCTGACGATTTCAGGTATTCCTGACGATTTCAGGTATTCCTGACGATTTCAGGTATT
CCTGACGATTTCAGGTATTCTGACGATTTCAGGTATTCCTGACGATTTCGGGTATTCCCAT
GTTTCGCCGGGCGGACGTGGGGAATGCGTAACGGGCAATAGTGGGCGGGAGCGGGCGGT
TTTATGCCCCGATTTCGGTTTTTCGCGCGAACATATCAGCCCGCTGCCGCTTTCGGCT

Appendix A

-435-

TGAAATCGGGTATGTTTCGTCTTAAATATGCTGCTTTCAGGGTATAGGCACTTGCCCCGA
AAAGCAGGTTACCGCTCTATCTTGC CGCGCGTGT TTTTTTTGACCGGATT TTTCCGACC
GGATGCCCCCTGCCGAAGTCCCTTCAGACGGCATTGTCAAGATTTTATTAACAAACAGGA
TTCCCATCATGAGCACCCCGCCCTCCTCGTCTCGCTGACGGCAGCGTATTTCACGGCA
CATCAATCGGTTACGAAGTTCGACTTCCGGCGAAGTCGTGTTCAATACTTCGATGACCG
GCTATCAGGAAATCCTGACCGACCCGCTCTACTGCAACAAATCGTTACCTCACCCTACC
CACACATCGGCAACACCGGCACCAACGCCGAAGATGAAGAAAGCCGAGCGTTTATGCCG
CCGGCCTGATTATCCGCGACCTGCCGCTCTTGCACAGCAACTTCCGCGCTCCGAAAGCC
TGCACGACTATCTGGTACGCAACAAAACCGTCCGCATCGCCGACATCGACACCCGCGGCC
TGACCACGCTGTTGCGCGAAAAGGCGCGCAAGGCGGTGCGATTCTGACCGGTGCGGATG
CCACAATCGAAAAGCGCAAGAACTCATCGCCGCGTTCGGCAGCATGGTCGGAAAAGATT
TGGCAAAAGAAAGTTTCTGACCGGAAACTTACGAATGGACGGAAGCGGAATGGGCATTGG
GCAAGGGTTTCGTTACCCCTGACGAACAGCCTTACCACGTCGTGCGCTACGATTTCGGCG
TGAAAACCAACATCTCTGCTATGCTCGCCTCGCGCGGCTGCCGCTGACCGTCTGCTCCCG
CCCAACGAGCGCGGAAGACGTGTTGGCACTCAACCCTGACGGCGTATTCTTATCCAACG
GCCCGCGCGACCCCGAGCCTTGCACTACGCCATCAAAGCGGTACAAAACTGATAGAAA
GCGGCAAAACCGATT TTTGGCATT TGTGGGACACAGCTCATCAGCTCGCCATCGGCG
CGAAAACCTTGAAAATGCGCTTCAGCCACCACGGTGCGAACCACCTGTGCAAGATTGG
ACAGCGGCAAAAGTCGTATCACCAGCCAAAACACGGTTTTGCGGTTGATGCCGACACCC
TGCCCGCTAACGCGACGATTACCCACAATCCTTGTGTTGACAACACTTTCGAAGGCATCG
AGCTGACCGACAAACCTGTGTTCTGCTTCCAAGGCCACCCGGAAGCCAGCCCGGTCCGC
AAGATGTCGGCTATTTGTTTGACAAATTCATTGGCAATATGAAAGCGGCAAAACGGGCAT
AATGTTTTTCAGACGGCAACAGTATGCTGCTGCGCTCTGAAAAACAAAGCTGGAAATGAA
GATTAGCGCACTCGACCATCTAGTACTAAGTGTGCGGACATTGACCGAACCATCGCGTT
TTATAGTGAATTAATTTAAACCGGTACAGCGTTGGCTCGCCTGCGCTACTATTTGTAC
TGTCTGCGGCTCGCCGCTTGTCTGATT TTTGTTAATTCACTATACACAAGTTTTGG
GCATGGAAGAAGTTTCAATTGGCAGCGACCGTAAAGCTTTGTTGTTGGCAGTCAGAAAA
TCAACCTACACGGCGCGGTGCGGAAATTCAGCCTAACCGCGCAACACGCCGCTGCGGCA
CAGCGGATTTATGCTGCTGACCGATACGCCACTGGAAACGGTTTTACAGGAATTATCCG
CACACGGCATCAAACCTTAAAGCGGCATCGTAGCGCGCACAGGCGCAATGGGCAAAATCC
AATCGGTTTACCTGCGGATCCCGATGGCAACCTGCTGGAATCAGCAGTTATTGATTTT
CAGACGGCTTATGCAAAATAAAAAACAGCCTGCACAAGCTGTTTTCTTGCAGCCTCTTT
AACCCCAACAGCGCGCCCGTCTCTCTCCTGTGGGAAAGCGTTAGAGAGAGGGCAACAA
GCCGCAAGGCTTGTGTTTGGCGGTTAGGGTGTGGGGAAGGTTGCCGAAATTCGGGGAA
TGCCCTCTCCCGGCCCTCCCCACGGGGGAGGAGAGAGGTTGCAGCAGATTTTGGCGTT
GCAGGCGGTTTGAAGGCAACTTAGATTTGCAGCTGTTGTTTTCAGGTCATCTGAAAAATA
AAAAGCAGCCTGCACAACCTGTTTTCTTGCAAAACCTTAAATCCCAACCGCCACACGCT
CTCTCTCCCATGGGAGAGCTCAGAGAGAGGGCAACAACTGTAAGGCTTACACAACA
GTAACCCGACAACAGAATGAGCAGCAGAGAACTTTTAACCGCGCACACCCCGTCTCT
GCATCAACGCGCCAAAGCATGCGCCAAGAAATGAGCGAGGCGGAAGCAAAATTTGGGCA
GCACCTGCGGCGCAGGCGGTCTGAACGGCTATAAATTCGCGCGCACGAGCGGATGGGGAA
TTATATTGTTGATTTTATGTGCGTAACGCCCAAGCTGATTGTGCAAGCAGACGGCGGCA
GCACGCGGAACAAGCCGTATACGACCACGCGCGGACGGCATATCTCAACAGCCTGGGCTT
TACCGTGCTGCGTTTTTGAATCAGAAATTTTGACGAGACAAACGATGTACTGGCGGA
AATCTGCGCGTATTCGAGGAATGGAAAGCAGTATGCGCAATAACAAACGGTTAATTT
TGATTAGAGTTTTGAAATTTATAGGATACAGGTAGGGTACAGGCTGCTTGAATTGAGCGT
TTAGAAGACCGTCTGAAAAACAAAAACAGCCCGCACAACTGTTTTCTTGCAGAACCC
TTAATTTCAACAGCCCGCCCTCTCTCTCCTGTGGGAAAGCGTTAGAGAGAGGGCAAC
AAGCCGCAAGGCTTGTATTTAGGCGGTGAAGGCATTGGGGAAGGTTGCCGAAATTCGGAG
AATTCATCTCCCGAGCCCTCCCCACGGGGGAGGGGCGAGGTTGCAGCGGATTTTGGCG
TTGCAGGCGGTTTGAGAAAGATGCCGAAATATCAACAGCGGGAATTTTTCAGGCAGCC
TTTATCGCAAGGCAAGTTTGAACAAACGCCGCAACGTTTTTTCAGACGACCTTTGAACTC
ATCGGCAGAGAGTGTGCCCAAGGCACGACGCGGTGGGTGGGGTGCAGGGAATGG
AGAACCGGTGCATACGTACCGCACATACCTACATACGGGCTACGGCTTGCTACGATACG
GGGTTTTTCGATATACAAGTTAGGTTTTAGCAAAACCAACATTTTAGACAATTAAGCGGTT
TGTGTTGGGTTTTCAACCCAACCTACGCTTGCTACGTTTATGCAACATATTCGAGGAG
TTTAAATATGTCAATACCTATTAATTTCAATAATTTAAAGTATTTGCTTAATGATATGAG
AAACAAAAATAGAATAATTGAAGCATTTCCTTTTAAATTATAATCAAAGGCAATACGCCGT
TATTTTGACTAGGTATAAACCTGATGAACCTAGACCAGATGATTATGCACAAGCAAAATT
AGAGTTTTTAAATTTGAATAGTGAATTTCAATATTTGCGTATGCTGATTTTATGAAGT
TCATTTTAAAGTGCTACTGATTTTATTAATTTTTTAAATTAATGTTTCAAGGCTGGTG
TGCAGAAATCAGAGAAATTTTTCAGAGTTTAGTAATCTTTTTCGAGATTTTCAATCAAC
ACAACTAAAAAGATTTAGACATAATTTATAAAAAGATTGTAGCTACTCGTTTAGAAC
TAATCTCCTAACACTATTTATGCTATGATGTCCTGAGAAATGGGAAAGATAAGGCTGG
CAAGCCTAATCGCAGGAGGCTGGAAAATAGTGAAGAAAGCAAAATTTTTCGCGCCAGAGCT
ATACGAAAAATTTAAAGCCGATAGTAATTACAGTTTTTTCTTTTCAGATAATCCAAGCGA
TGAAAAACAGATGCAGAAATAATTAGAGAAGTTACCAATCGTCAATAATCCAAATCTT
CAAAAGAAAGACCCACCTGCCCAACGTAACCGACCTAAATCCATCCTTATCATCGGCG
CCGGCCCTATCGTTATCGGTACGGCTGCGAATTTGACTATTCGGGCGCACAGGCTGCA
AAGCCTTGGGTGAAGAAGGCTATAAAGTCATTTTGGTGAATTTCAACCCCGCCACGATTA
TGACCGACCCCGAATGGCGGATGTTACCTACATCGAGCCGATTATGTGGCAGACGGTGG
AAAAAATTTATGCCAAAGAGCGTCTGACGCGATTCTGCCTACCATGGGTGGTCAGACTG
CGCTGAAGTGTGCGCTGGATTGGCGCGCAACGGCGTGTGGCGAAATACAATGTCGAGC
TGATCGGCGGACCGAAGACGCCATCGACAAAGCAGAAAGACCGTGGCGGCTTAAAGGAGG
CGATGGAGAAAAATCGGCCCTCTCTGCCGAAATCTTTTGTCTGCCACACGATGAACGAAG

Appendix A

-436-

CTTTGGCGGCGCAAGAACAGGTTCGGCTTCCCTACCTGATTGTCCTTCTTTACCATGG
GCGGTTTCGGGCGGCGGCTATGCGCTACAATAAAGACGAGTTTTCGGCGATTTGCGAACGCG
GTTTCGATGCGTGCCTCCGACGACGAGCTGTTGATTGAGCAGTCCGTTCTCGGCTGGAAG
AGTACGAGATGGAAGTGGTGCAGGATAAGAACGACAACGTCATCATCTGCTCGATTG
AAAACCTTCGACCCGATGGGCGTGCATACAGGCGACTCGATTACGGTTCGCGCGGCGCAAA
CGCTGACGGACAAGGAATATCAAATTATGCGTAATGCTTCGCTGGCGGTATTGCGCGAAA
TCGGCGTGGACACGGGCGGCTCGAACGTCAGTTTCGGGTGAACCTGCAACGCGGAGA
TGATTGTGATTGAGATGAACCCGCGCGTGAAGCCGTTCTTCCGCGTTGGCTTCCAAAGCAA
CGGGTTTCCCGATTGCGAAGGTGGCGGCGAAGCTGGCGGTTCGGCTTACGCTGGACGAGT
TGCGCAACGACATCACCGCGGCAAAACCCCGCGTTCGTTTCGAGCCTTCCATCGACTATG
TGGTTACCAAAATCCCGCGTTTCGCGTTTGA AAAATTCCTGCGCGACGACCGCCTGA
CCACGCAGATGAATCGGTGGGCGAAGTGATGGCGATGGGCGCACGATTCAAGAAAGTT
TCCAAAAAGCCCTGCGCGCTTGA AAACAGGCTTGTGCGGCTTCAATCCGCGCAGTGAAG
ACAAAGCGGAAATCCGCGCGAAGTGGCGAACCCCGGCGCGAAGCTATGCTGTTTGTGG
CAGACGCGTTCCGCGCGGCTTCACGCTGGAAGAAATCCACGAAATCTGCGCCATCGACC
CTTGGTTCTTGGCGCAAATCGAAGACTTGATGAAGGAAGAAAAGCGGTTTCAGACGGCA
TTTTGAGTGATTGGAATTTCGCGCGCTACGTCGTTGAAACGCAAGGCTTCTCCGACA
AACGTTTGGCACAATTGTTGAACGTAAGCGAAAAAGAGTTTCGCGAACCCGCTACGCGC
TGAAGCTGCATCCGTTTACAAACGCGTCGATACCTGCGCGCGCGAGTTTCGCCACCGAAA
CGCCTATCTTTTACTCTTACGAAGAAGATGCGAATCTGCTCCTCCGACCGCAAAA
AAGTGATGATTCTCGGTGGCGGCGCAACCGCATCGGTGAGGCGATCGAGTTGACTACT
GCTGCGTTCACGCGCGCTCGCCCTGCGCGAATCGGGCTTGA AACCATCATGGTCAACT
GCAACCCCGAACTGTGTCACCGACTTCGACACCGAGCGACCGCTGTATTCGAGCCGC
TGACGCTGGAAGACGTTTGA AAATCGTCCGACCGCAAAACCCGTGGGCGTGATTGTGC
ATTACGCGCGCAAAACCCGCTCAA ACTCGCAACGCGCTGTTGAAAACGCGTGAACA
TCATCGGCAGCTCCGCGCAGCATCGACGCGCGGAAGACCGCGAAGCTTCCAAAAAG
TGTTGAACGACTTAGGCTTCGCGCAACCGCCCAACCGCATCGCCCAACAGGAAGAAG
CGCTCGTCAAAGCCGAAGAAATCGGCTATCCGCTGGTCTGCGCGCGCTTACGTCCTCG
GCGGCGCGCGCATGCAAGTTCGTCATTCCGCGGAAGAGCTGCAAAAATACATGCGCGAAG
CCGTGCAAGTTTCCGAAGACAGCCCGCTGTTGCTCGACTTCTCTGAACAACGCGATTG
AAGTGGATGTGGACTGCTTTCAGACGGCAAGACGTTGTTATCGGCGCGCATCATGCAGC
ACGTGCAACAGGCGGGCATCCACTCCGGCGACTCCGGCTGCTCGCTGCGCGCCTACTCCT
TAAGCGAAGAAATCCAAGACGAAATCCGCGCGCAAAACCAAGCGATGGCGTACGCGCTGG
GCGTGGTTCGGAATGATGAACGTGCAAGTTTGCCGTACAAGACGGCGTAGTGTTCTGATTGG
AAGTGAACCCGCGCGCCAGCCGACCGTGCCCTTCGTCCTCAAAGCCACCGCGTGCCGC
TCGCCAAAGTCGCGCGCGCTGCATGGCAGGCAATTCCTTGAAAGAACAGGCGTGGAAG
AAGAAGTTGTCCCGATTTCATATGCGGTTAAAGAAGCCGTGTTCCATTATCAAAATCC
CGGGCGTGATACGATTTTGGGACCGGAAATGCGCTCCACCGCGAAGTATGCGCGTG
GCGCAAGCTTTGGCGAAGCCTACTACAAAGCCCAACTCGGCGCGGCGCAACGCCTCAACC
CGACCGGCAAAATCTTCTCTCCGTGCGCGAAGAACAAAGAACGCGTCATTA AACCCG
CTAAAACTTCCAAGTTTATGAGTACGGCATCTGCGCCACGCGCGCACGGCGCAATACC
TGACCGAACACGGGCTGATTGTGACAGCATCAACAAAGTACCCGAAGCGCGCCGCAACA
TCGGCGACGCGCTGAAAACGGCGAAATCGCACTGGTCTGTAACACCGTTTCCAGCGATC
CGCAATCCGTGTCCGACAGCCACATCATCCGCAAGCGCATTCGACGAACGTGTGCGCG
AATACACCACCACCGCGCGCGCAAGCGATGAGCGAAGGCGGCAAAAGCCGAGACCATC
TGGGCGTGTACAGCGTTCAAGAACTGCACGGGCGTTTGA AAAACCGCAACTGATGCGCTGA
ATCAGGTTGAAATGCCGTCTGAAGCCGTTTTCGGGTTTCAGACGGCATTTTGTCAATTG
GAAAGCCGATGTTGCCACACACAAAGCCGTACATAAGGAACAGCCCTATCACGCTCCCAT
ATAGATTGCCATTGCCGCGACTATACATTATCTTATTTATTTTCTCAAAGTTATTAA
GTGAGTAAAAACAGTTTATGACAGGTTTATATAGAATTATCCACAGAGATTGTTTCCCA
GTTCTCCCACTAAAAAATACAAAATACGCGTAAGCGGAGATTGACGGCTTATCGCTGT
AATAACAGCATTAAAGGGGTGTGTTTATCGGAGGTTTGTTCGGCGAGCAGGGGAATTA
ACTTTCTCTCAGCGATGTCGTTGTCAACCAAAAAATCTGATAAGCAAAACAATACCGCAAC
CTGAAAGGCACACGAGCGTAAGATTTACCGCTGCTGGCGGTAAGTGCGGTGAAATCT
TATAGGGATTTCCCTCGGCATCTAAAACCGCCCATGTATTTAGAGAACCGGGTTCGGTGA
AGCCTAAACATTGGTGGCGGCAAGCTCTTCTGTAGATTGCGGCGTGCCGTGTTTGGCA
GGTATTACGAGCTGGCGATTACCGCGAAGCGGCTGTCAAACAGATGGCGTGACGCGAGCC
CGGAATCGTCCAATTCTCGGCGCGTAAGGCAATATCGACTTTCGCTTCAATCAGATTGA
TATAGCCTTCGGAAGAAACGAGCGAAAGTCGGATATGCGGATAGCGTTTCGTTGAATTTG
CTGCCAGCGGCGCGAGCAGATGCAGCACCATCGGCATCGCGGAATCCACGCTCAACACGC
CTTGGCGTATTTCGTGCACTGCCAGCATTTCGGTTTCGCGCGCTGCCATTTCTTGACGGA
TTCTCTGCGCGCGGCGGAAATATTGCGCGCCTTCTTCCGTCAGACTGAGTTGCGCGTG
TGCGGTTGAGCAGGTTCAACCCCACTTTTCTCCAGCCGTTGACGATGCGGCTTACGG
CAGAATTTGCCATCGCCAACTGCTCCGCGCACGGCTGAAGCTGCCGCTTTCACCACTT
GAACAAATACCGTTCAGTTCTTCTGAATTGTTTTCATCGTGTTCCTTTTCGGTTGGAAC
CCGCGCTTTAGGCGGCGAGGATCAGACTTATTTGGGAGGGGTGAACCCCTTCCGAAT
CAGGACGGCACACAGGGCGGTGCTTATGTGCCATCCCGTGTTGGAACATCTGATTAT
TTCATTTGACGCAAAAGTGTTCCTTATTTTGCACCTTTTAAATTATAAAGTAAACCGCG
ACAATACATTATCAATTACAAACGAGGTAACAAATGAATATTTTATTATTAGACGGCG
GCAAGGCGTTCGGACATTTCTACGGCGGGTTAAACCGTACGCTTCAAAAAAAGCGAAAG
AAGTTTTGACCGCGCTCGGACACAATGTTCAAGAAACCGTGATTGATGCCGCTATGATG
TTGAGGCAGAAATCGAAAAGTTGTTTGGATGGATGCTGTGATTGCGCAGATGCGGGCT
GGTGGATGCACGAGCCTTGGACAGTGAAAAAATACATAGACGAAGTATTAACCGCTGGAC
AGGGCAAACTCTACCAAGCGACGGCAGACACAGCGTCAATCCGACTGAGGGCTACGGCA
CAGGCGGCTTGTGCAAGGCAAAAAACATATGATTTCACCTGACTTGAATGCGCCGATTG

Appendix A

-437-

AAGCCTTTACCCGCGAAGGCGATTCTTTGAAGGCAAAGGCGTTGATGTTTTGTATATGC
ACTTCCACAAAGCCAACAGAGTTTTTGGGTATGACCCGCTGCCGACATTCTTATGTAAACG
ATGTGGTTAAAAATCCGCAAGTGGAATAAATACTTGGCAGATTATCAGGCACACTTGGAAA
AAGTGTTCGGCTAAAAATTTATCTTATAAACAACAAGGCAGCCTGAAAGATTGAATGG
TCTGCACCCCTAAGGTTGGACTAACCAACCGACTAAGGTGCAGATTATTTTTTGTGCTT
TTTCAGCTTTTCGTTGGGTAGATATTCTTGCCCACTGTTTCAGGCAGCCTTGAATACA
AAAAAATGGCGTATGTAATATGTTTATACGACCAAAACGGAATGAATTTTAACTATTGC
GCGTCATCAACAATGACTGAGTTTCTCGCCTCTCGCGCCTGAATCTATAGTGGATTAAACA
AAAACCACTACAGCGTTGCTCGCCTTGCCGTACTATTGTACTGTCTGCGGCTTCGTTG
CCTGTCTGATTATAAATTAATCCACTATATGTCATGCAGTTCCCTTTCATTCAAATCAA
CAAAAGAATGCCGTCCGAACGTCGTTTACAGCGGCCTTGTCTTCCACAATAGACTTGA
GGCTGTTCTAACGTACCAACCCCTTCGTTCCGCCCAAAACCATCGCATCGCCGTAGCTGA
AGAAACGGTATTTCGCTTCGACCGCATGACGATACGCGGCGGATATGACCATACCCG
AAAACGCGCTGACCAACATCAGCAGCGTCGATTTTCGGCAAATGAAAATTGGTAACAGTC
TGTCGACAACATTAAACGGTAGCCCGGCGTGATGAAAATATCGGTGTGCGCCTGCCCG
CTTTCAGACGACCCGTGCGACGCGCGGAGATTTCAGGGCGCGCATGGAAGTCGTGCCGA
CGCCCAAGACTTTGTTCGCCCGGCTTTTTCGCCCTCAACGCGCGCGGCTTTCAGACG
GCACTTCAAACCATTCGCTGTGCTTTTGTGCTCTTCGATTTTGTCCACACGCACGGGT
GGAACGTTCCGCGACCGCTGCGAGGTTACTTCTGCGGTTACCGCGCTTGTCTTTCA
GACGGTGCAAAATCTTCGTAATAATGACGGCCGCCGTGCGGCGCGGCGACCGCGCCT
GATATTTGGCATAAACGGTTTGATAACGGCTGTGCTCATCCGCATCGGCGCGCGTTCGA
TATAAGCGCGGAGGGGCGAGGTGTCCGTTCTGTTCAAAAGTTCGTAACCGTCTCTCCGC
CTTCAAAACGCGAGGAGAACAGTTCCGCTCACGCGCGACCGTCACGGCGCGGATGCCGC
CTTCAAAACACCCACCCCTTACCGGCTTGGGCGATTGGAAGCAACGGATGTGCGCCAGTG
CGGTATGGTTGTCAACACGCGCTCAATCAGGGCTTCGATCCTGCCGCGCTGTCTTCT
GCCCCAACAGCGCGCTTCATGACTTTGGTGTGTTGAACACCAAAACGTCGCGCGCCT
CGACATAATCCGCGCAATTCGCCGAACACCGGTCTTGACGCGCATATCGGGCAACGCAA
CCAAAAGGCGGCTGTGCGCGGCACTTCGGGCGGATGCTGGGCAATCAGCTTTTCGGGCA
GGGTAAAATCAAATCTGAAATATCCATTTTACACTCTCGTTTCGGGCAAGCCGCCATTA
TACGCACTTTAGCCCTTTTTCAGACGGCATCTTTGTCCGAAAACCAACAGATTAGAATA
AACACTCTTAACCTGGAACATCTTGTGCGCAAAATCAAACCTTCTGCACATTTCCCCAA
AAACCGCGTTTTTTGTATTTTTACTGGACATTTACCGCAACTTCGGGAAAATAAACAC
ATTCTCACGGTCGTTTTCCACCACAGGAAAACCGTATCCGAACACCATTCGCGCGGTTT
GCGCGGTGCGCGCAAGCCGCTGTTTTCTGAAAACCAACGCAACAACCCGCCGAACAC
CGGCAGCCTTTAAAGGAACAGAAATGGATTTCGCGCAAAATAAAAAACTGATTGATTGG
TTGAAGAAATCGGGTATCCGCCGAATCGAAGTAACCGAAGGCGAGGAAAAAGTCCGCATCA
CCGCAACCATTCGCGCGCGGCTTTACGCGCGCGCTACCTGCGCGCGCGCGCGCGCG
TAACGCTGCGCGCGCACCCGTTGCGGCATCCGCGCGCGCGCGCGCACCTGCCCGCGCG
ATTTGTCCGACGCGCAAAATCGCCTATGTCGCGCACGTTCTACCGCGCACCCGCGCGCA
ATGCGCGCGCTTTTGTGCAAGTCGGCCAAACAGTTAAAGCGGCGACACGCTGTGCATCA
TCGAAGCGATGAAGCTGATGAACGAAATCGAAGCCGAAAATCCGGCAGCTCAAAGAAA
TTTTGGTCGAAAACGGTACGCCGTCGAATTCGGCGAACCGCTCTTATTATCGGATAAT
CCTGTTTTTCAGACGGCATAAACTTCCGATGCCGTCTGAAATGCTTTCCCCCTTCAGCGTT
CCGCAACCTTTTTCAGGACGGGTTGCGGGAACCGCAGGAAAGGTCATCATGCTGAAAA
AAGTTTTAATCGCCAACCGAGGCGAAATCGCATTACGCGTACTCCGTGCTGCGCGGAAA
TGGGCATTGCCACCGTCGCGGTGCAATCCGAGGCGGACAAAGACAGCCTGCACGTCAAAC
TCGCGCAGCAATCCGTGTGCATCGGCCCTGCCGCTTCGCGCGAAAGCTACCTTAACGTCC
CCGCCATTATCGCGCGCGCGGCAAGTAAGCTGCGCGGACGCTGTCCATCCGGGTTACGGTT
TCCTTGCGGAAAACGCCGATTTCGCCGAACAGGTGAGCAGTCCGGCTTTACCTTTATCG
GCCCCAAAACCCGACACCATCCGCTGATGGGCGACAAAGTCTCCGCCAAACACGCGATGA
TAGCGGAGGCGTACCCTGCGTCCCGGTTCTGACGCGCATGTCGCGACGACGCGGGAAG
AAATCCTCAAATCGCCGATAAAGTCGGTTATCCCGTCATTATCAAAGCCTCTGGCGGCG
GCGGCGCGCGCGGTATGCGCGTGGTCGAGAAAAAAGAACCTCTCCAATCTGTGCAAAA
TGACCAAAGCCGAAGCAGGCGCGGCAATTCGGCAACCCGATGGTTTACATGGAACGCTATT
TGCAACGTCCGCGCCACGTGCAAAATCCAAGTGATTGCCGACGAACACGGCAACGCCATCT
ACCTTGCGGAGCGGACTGTTGCTGCAACGCCGCGCACAAAAGTCATCGAGGAAGCAC
CGGCTCCGTTTACTGAAAAAGAACGCGCCAAAATCGGCAACGCTGTGCCGATGCCT
GCAAACGCATCGGCTACCGGGGCGCGGTACGTTTGAGTTTTTATACGAAGACGGCGAAT
TTTTCTTTATCGAGATGAACACGCGGTTACGGTCGAGCATCCGGTTACCGAGCTCATCA
CCGGCGTGGACATCGTGAGGAGCAACTCCGCATCGCCGCGCGGCTGCCTTTGCAATACA
AACAAAAGGATATTCAAGTCGAAGGCCACGCGTTTGAGTGCGGTATCAACGCGGAAGACC
CGTACAACCTTATTCCAAGCCCGGCTGATTGAAAGCTGCCACCTGCCGCGCGGCTTCG
GTATCCGCGTGGACAGCCACATTTACCAAGGCTACCGCATCCACCGTACTACGACAGCC
TGATCGGCAAAATCTGCGTACACGGCAAAACGCGTGAACAGGCAATGGCGAAAATGCGCG
TCGCACTCGCGGAGCTGCGGTTAACCGGCATCAAACCAATACGCGGCTTACCGCGGAC
TGTTTCGCGGATCGGGGTTTCCAAAAGGCGCGCTCAGCATCCACTATTGGAACACTGGC
TGGAAGATCGAAAGCCAAACAGGACAAGTAAACCGCGCGCGATATGCCGTCTGAAGCCG
CCGCTCGCGCTTCAGACGCGATTTCCCTTGCCCCGCGCGCTGTAACCGGATTTTCGATAT
AGTGGATTAACTTTAAACAGTACGGCGTTGCTCGCCTTAGCTCAAAGAGAAAGATTCT
CTAAGGTGCTGAAGCACCAAGTGAATCGGTTCGCTACTATTGTACTGTCTGCGGCTTCG
TCGCTTGTCTGATTATAATTAATCCACTATATTTCAGAAAGCCGTTATGCCCTA
CCAACAAATACCGTCAACGTCAACGATGCGCTCGCCGAACGCTCGCCGACGCGCTGAT
GGAACACGGCGCACTCTCGCGCGCATCGAAGATGCTACGCGGCGACGCAAAACGAACA
GGCGATTTTCGGCGAACCCGATGCCCCGCCGAACAACTTGGCAGCAGAGCAAAGTCAT
CGCCCTGTTTCGGCGAACACGACGAAGCCGCGCGCATCAACACCGCCACACAAGAATG

Appendix A

-438-

CGGGTTAAAGACTTGGCATAACCGGCGAAACCATCGAAGACCAAGACTGGGTGCGTCT
CACGCAATCGCAATTCGACCCCATCCGGATTTCCGACCGCCTGTGGATTACCCCTCTTG
GCACGAAGTCCCCGAAGCAGTGCCTCAACCTCCGCTCGACCCGGACTCGCCTTCGG
CACCGGCAGCCACCCGACCACGCGCTCTGCCTCAAATGGTTGGATACGCAACTCAAAAA
CGGCGAAAGCGTCTCGACTACGGCTGCGGTTCGGGCATCCTGACCATCGCCGCCCTCAA
ACTCGGTGACAGTTTCGCGCTCGGCGTGGATATTGACGAACAGGCGCTCCGCGCCGGCAA
GGACAACGCGCGCAAAACAACGTCGATGCACAATTCTTCTGCCCCACGGTCTGCCTCA
AGGGCAATTCGACGTAGTTGTGCGCAACATCCTCGCCAACCTTTGCGTATGCTTGGCGA
AATGCTCGCCGCCCGCACCAACAGGGCGGACGCATCGTGTGTCCGGTTTGTGGACGA
ACAGGCGGAAGAACTCGCGGCAATTACAGCCAATGGTTGACCTCGACCCGCGGAAAC
CGAGGAAGGATGGGCGCGATTGAGCGGCGTAAACGCTGAAACGGAAGGAAACACCGTG
CAGGATAAAAACACCTCTGCTGGCTCGATATGGAATGACGGGGCTGAATCCCGAAACC
GACCGCATATCGAAGTCGCGATATTATTACCGACTCGGATTTGAATGTGTGGCGCAA
TCCGAAGTTTACGCGCTCACCACAAAGCGACGCTGCTGAACAAAATGGACGAATGGAAAC
ACCGCCACACACGGCAGGACGGGCTGACACAGCGCTACGCGAATCGTTCGCATACCGGAA
GCCGAAGTCGAACGAAACTGCTGGACTTATGTGCGAATGGGTACCCGGACGCGCCACG
CCGATGTGCGGCACTCCATCCACCAAGACCGGCGTTTTATGGTCAAATATATGCCGAAA
CTGGAAGAACTACTTCCACTACCGCAACCTCGACGTTTCCACGCTGAAAGAACTCGCCAAA
CGCTGGAAATCCGCGCGTTGCCAAAAGCGTCGTCAAACGCGGTCGCAACAAGCATTGGAC
GACATTTTGGAGAGCATGCAAGAAATGCGCCACTACCGCGAACACTTCTGATTTCCGCC
CCGAGAGCCGAAGCGCAATAAGAAAACAAACATGCCGCTGTAACGCGAGTTTGCATTTCA
GACGGCATTTTTACAGCAGATTGAAATCAAAAATATACACGCCCGTCATTCCCGCACAGG
CGGGAATCCGGAAGGTGCGGCGCTGCCGTTATTTCAATCATTACAGAACTGAAAGGTCT
GGATTTCCGCGCTCGCGGCAATGACGGGCGTGTGCATTCTTATAGTGGATTAAACAAAAT
CAGGACAAGGCGACGAAGCCGCAACAGTACAAATAGTACGAAACCGATTCACTTGGTGC
TTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTT
TGTTAATCCACTATACTTCAATCTGCCAAACAGATCGAACAGAGAAACCTGTCCGTCAA
AACATCATTCAGCCATCGCCTTGAACACTTCAACCGCAACCGCAACCGTTTCGTCAATCA
GCTCGGGCGTATGCGCGCGGGAACGAAACCTGCTTCATAAGCGGACGCGGCGAAGCGCA
CATTGCGGTGAGCATCCCGTGGAAAACTGTTTGAAGCCTTCAATATTGGAACGCGCCA
TATCGGCATAGTTTTCGCGCGCGGTGTGCGGCGAAATACAGACCGAACATACCGCCACGC
TGTCGGCGGTGAATCGATGCCCCGCGCATCCGCTGCCGTCCGAAAACCTTGAACCAACT
GTTCCGTACGCGCGCTCAGGTTTTCATAGAAGCCTTCGCGCTGGATGATTTCCAGCGTTT
TCAAGCTGCGGCGGAGACGAATCGGGTTGCCGACAAGGTGCTGCTGATACACGCGC
CCAGCGGGGAAATACATTCATAATGTCTTTGCCCGCCGCAACCGGCAAGCGGCATAC
CGCCGCGCATGACTTTGCCCATCGTGGTCAGGTCGGGCGTGATGCCGTGCAAGATTGCG
CGCCGCGGAGCGGACGCGGAAGCGGTCATCACTTCGTCGTAATCAACACCGCGCGCT
ATTTTTCGGTCAATTCGCGCGCGCTTTGACAAAGGCTTCGGTCGGGCGGACGAGGTTCA
TATTGCCGACGAAGGGTTGCAACAATCACGAGGCGATTTTCATTGCCGCTTTGAGCAAGG
CTTCTTCGAGTTGGGCGATATTGTTGTACTCGAGTACCAAGTGTGTTTGGTAAAGTCGG
CAGGCACACCGCGGAGACGAGGTTGCCAAACGTACGACAGCCGCTGCCGCGTTTACCA
GCAGGCTGTGCGAATGCCCGTGGTAGCAGCCTTCAAACCTTGATGATTTTGTACGCGCCG
TAAACCGCGTGCCAGACGGATGGCGGTGATGTCGCTTCGGTACCGGAGCTGACGAGGC
GCAGCGTTTCGAGGACGCGCATGATTTTGGCGATTCTTCGCGCAATGACGATTTCCGCTT
CGGTAGGCGCGCGAAGCAGCAAAACCGCCCAATGCCGCTTCGCATACGGTTTCGACGACTT
CGGGGTGCGCGTGTCCGACAATCGCAGGTCGCCACGAGCCGACGTAATCGGTATAGCGCG
TGCCGTTTTCTGTCCTCAACATACGCGCTTCGGCTTTTTTGATAAGCGCGGTACGCCGC
CGACGCTGCCGAATGCGCGGACGGGGAATTCACGCCCGCGGGGATGATGGCTTTGGCGC
GGTCAATAAAATTTCTGTTACGGTTCATATATATCTCAAATGCCGTCTGAACGGCAGGT
TTCGGGCTTGGAAGCAGAAAGCCCATTTTATCATTTTTCAGGTTGCGACAAGGATTTGC
CCGCTTTCTTGGCGGATCGCGCAACCGCATCCCGGATGACGGAACGCTCGCTTTTTTCCA
CTTTATGTGTAAAGCGGTAGTCTCGGACGACTCCCTCCCGCTCGTAATCCACACCCACT
CCCAATGTCGGCGTCTGATTTTCATATAAATGAAATGGTCGGCAAAAATATATAATCG
GCAGGCTGACTTCATGATAGGCATAACAACCGAAAGGTTGCGCTTCCCGAAACGTGCCT
CTACACCTCCGCGCGGTCTGTTTTGCTTTAACAACCGTTTGTGCGATTCCCTCTTCGCT
CTGATATAGTGGATTAACAAAATCAGGACAAGGCGACGAAGCCGACAGTACAGATA
GTACGGCAAGGCGAGGCAACGCTGTACTGGTTTTTGTAAATCCACTATAACGCAGGAAT
GATGTTCCCTGTGCGCGAATTTGCTGGTACACGCACACAGCAGCAATGCCGCCCATACAG
CCGGTTTCATACACATCTCCCATTAAGCCAAACATTATACAGCCGTCCCGACCGATTAA
ATTCATATTTTTAAACAATATCTGCTCCAAAACCCACATCGTGCTATAATCCGCACCG
ATTTTCAGACGGCATCGTGTGCGCTGAAATTTTTTCATTCCAACAACAATCAGCCCC
GCGATTACGGCTGCTGAGAAAGACACAACCATGAAAAAGTATTTATCCGCACCTTCG
GCTGCCAGATGAACGAATACGACAGCGACAAAATGCTCGCCGTCTTCGCCGAAGAACAG
GCGGCATCGAACAGGTTACCCAAGCCGACGAAGCCGACATCATTTGTTCAACACCTGCT
CCGTGCGGGAAGGACGCGCAAAAAGTCTTCTCCGATTGCGGCGCGTGCCTCCGCTCA
AAGAAAAAAACCCGCGCTCATCATCGCGGTTGCCGCTGCGTTCGCAAGAAGGCG
AAAACATCATCAACGCGCGCTTATGTGACGCTGGTTTTTCGGCCCGCAACGCTGCACC
GCTGCCAAAAATGATTTGGACAAAAGAACAGCGGCTGTGCAAGTCGATATTTCTCT
TCCCCGAAATCGAAAAATTCGACCACCTGCCGCCCGCGCGTCAAGGCGGCGCGGCAT
TTGTATCGATTATGGAAGGCTGTCCAAATACTGCTCCTTCTGCGTCTGCCCTACACGC
GCGGCGAAGAAATTTCCCGCCGCTCAACGACGATTGACCGAAATCGCAACCTTGCCC
AGCAAGGCGTGAAGAAATCAACCTCTTGGGACAAAACGTCACCGCTATCGCGCGGAA
TGGACGACGGCGAATCTGCGACTTCGCCACCCTGCTGCGCATCGTCCACGAAATCCCG
GCATCGAACGTATGCGCTTCAACCACGACCCCGCGCGAGTTTACCGACTCGATTATCG
AGTGCTACCGCGACCTGCCAAACTGGTTTCCCACTGCACCTGCCGATTCAAAGCGGTT

Appendix A

-439-

CCGACCGCGTATTGAGCGCAATGAAACGCGGCTACACCGCTTTGGAATACAAATCCATCA
TCCGCAAACTGCGCGCCATCCGTCCTGATTTGTGCTGAGCAGCGATTTTCATCGTCGGCT
TCCC CGCGAGACCGAAGACCGGAGTTCGAGCAAACCTTGAACTGGTGAAAGACATCGCCT
TCGACTTGAGCTTCGTGTTTATTTACAGTCCGCGCCCCGGCACGCCTGCCGCCAACCTGC
CGGACGACACGCGCGACGAGAAAGAGTGC GCGCCTCGAAGCCTTGAAACGAAGTCATCG
AAGCCGAAACCGCGCGCATCAACCAAACCATGGTCGGCACGGTACAACGCTGCCTGGTCG
AAGGCATCTCCAAAAAGACCCCGACCAACTGCAAGCCCGTACCGCCAACACCGCGTCG
TCAACTTCACCGCGCACGCCGACATGATTAACCAAATGATCGATTTGGAAATCACCAGG
CCTACACCTTCTCCCTGCGCGGCAAGTTGTGCAAGCCTAAACCTCAGCGCGAAAAAAT
GCCGTCTGAAGCGTTTCAGACGGCATTTTGCCTTGATCGGCAGACGACGGCGCGCGG
GCGGCTTAATTTGCCGCATCCCGATCCGACAGCCACGCGCGCACACGCGTTCCACCGCT
TCGGCACTCAAGCCCAATTCGTCTAAAGTTTTCGGATCGCCGTGTCCGGTTACGTA
TCGGCAACGCGCCAAAGCAAACGGGTTTGAGATGCCGTGTTTCGCCAATACTTCCAGC
ACCGCGCGCCTGCGCGCCCTGTTCGGCGTTTCTTCAAGGGTAACGATGCGGTCTGTG
CTTCGGGCAAGCGGACAACTCACTCTTCGTCTATCGGTTTGACGAAGCGCATATCGGCG
ACGGTGGCGTTCACTTTTCGGCAACCGCAATGCGGGGCGACCATACTGCCGAAGGCA
ATGAATGCGGTTTCTCACCCTTCGCGCGGATAATGCCCTTGCCGATTTCCACGGTTTCC
ATGCCGTCTGAAACCGCGCGCCCGTACCGTGCCGCGCGGATAGCGGACGCGCGCGGCG
GCGTCTCGCTGATAGCAGTTCGAAAGCAACAGCGCGCATTCGTTTTCATCGCTCGCGCG
GCGCAATCATGTTTCGGCAGCAGCGCAAAAGCTCAATCGTACAGACCGGCATGGGTC
GGGCGCTCCGCGCGACGATGCCGCGCGGTTCGACGGCAAAACAAACGGGTAGGTTTTCG
AGGGCGATGTCGTCGACAGTTGGTTCGTAGGCGCGTTGTAAAAAGTGGAATAAATCGCC
ACGACGGGCTTCATCCCTTCGCAAGCCAAACCGCGGCAAGGTAACGGCGTGCTGCTCG
GCGATGCGGACATCGAAATAGCGGTTCGGGGAATCGTTGTTCAAACCTCAACCAAGCGCTG
CCCTCGCGCATGGCGGGGTAATCGCAACAGTTCGGGAATCTGCCGCCGCCGGTTCGCAC
AGCCATTTGCCGAACACTTGGGTATAGGTCGGTTTGGCGCGGGCTTGGGTTCTTTTCA
GACGGCATTTGCGCGCGGCTTTCTTTAGGCAAGTTGGCGACGGCGTGGTATTGACGGG
TCGTTTTTCGGCGAGTTTGTAGCCGTTGCCCTTTTGGTGATGACGTGCAGCAACTGAGGG
CCTTTGCGGCTCGCGCAAGTCTTTCAATACGTCCACCAGATTTTCGACGTTGTGTCCGTCC
ACGGGGCCGGTGTAGCGGAAGCCGAAGTTTCAAACAAAGACAGCGACTGTTTGGCGTGT
TCGGCTTCTTCGGCAAGGTTTTCGATTTTGTGTTTCGACTTTTGGGCAAACTCCATCGCG
CCGGGTATTTTGTCTAATACCTTGCCCGTTTGCGCTTTGACGGTACTCAACAGGCGGTGC
ATATCGCGCACGACGTGCTGGCAAGGTATTTGCGCAGCGCGCCGACGTTGGGGAAATC
GACATTTGCTTGTGCTTGAAGACGACGCAATCCACATCCATATCGCCTGCGCAATTC
AAGGCTTCAAACGCTGCCCGCGCGTCATCGCGCGTCGCCGATGATGGCGACGTCGCG
CGGTGCTGCGCAAGAGTTTGTCTGCGCGCGCCATGCCCAACGCGCGCGCATGGAGGTG
GAGGAATGCCCCACCGCAACGCGTCTGACTCGGACTCGCAACGTTTCGGAAACCCGCC
AAACCGCCATATTGGCGCATGGTGTGCATCTGGTTTTCTGCCTGTCAAGATTTTGTG
GGATAGCTTTGGTGTCCGACATCCACACCAGCTTGTCTTCGGGCGTGTCTACACATAG
TGCAGGGCGATGGTTCAGTTCGACCGCGCCCAATTTGCTGGCGAAATGCCCGCGGTCTGC
CCGACAGATTCCAGCAGAAAGGTGCGCAACTCGCCGGCAAGCGCGCGAGCTGTTTTTTG
TCCAGACGGCGCAATCTTGGGGCTGTCAATCAGGTCGAGTAGGGGGCTTGGGTTTCATG
GTGTGCTTTTTTATGTGTCTCGGGTGAACGGTCAATTATATATCAAGAGCGTGC
CTGACGGCTGATTTTTCGCGTATGTCATTGCTCCTGCCGCTTGGCGCGGGTGGGCTTCG
TCATACAGGGCGCGATGTGGTCGAAATCGAGCTTGGTATAAATCTGCGTGGTCGAAAG
CTGCTGTGCCCCAGCAGCTCCTGCACCGCCCTGATGTGCGCGCAAGCCTGCAATAGGTGT
CCGGCGTAGCTGTGGCGCATCATATGCGGCGAAACGTGCCTGCCGTGCCGTTTTGCGCG
GCCCATTTGCGCCAAACGTTTTTGGATTTGGCGTTGGCTCAGGCGCGTGCCGTTTCTGCCG
GTAAACAGGGCTTTGCCGTCCGATGCCGTGACGCGAGCGGAGATAGTTTTTCAGGGCT
TCCACGCTTTTGGCGACAGCGGCACCTGCCGCTGCTTGCGCCCTTTGCCGATAACGTGT
ACCCACGCTCGTCCAAATAGACATCATCTGCATTAAGCGGTGATCTCGCTCACGCG
AAACCGCTGCCGTACATCAGTTCGAACAGGGCGTGGTCGCGCACCGCCAGCGGGTCGCG
CCGTCCACGGGCAATCCAGCATCCGGTTCAGCCATTCTGCGGCAAGGGCTTTGGGTACG
CGCTCGGGCTGCTTCGGCGGTTTGTATGTGCGCGGTGCGGTCGGCTGCATCAGGCGCGC
TTTACCAGCCAAACGCAATAGTCCCGCAAGACGAAAGCTTGCGAGCCAGCGTCCGTTCC
CCCAAACCGCGCGGACAGCGCGGTAATGCCTGTACGAAGTCGCGCGAGTGCAATTT
GAAGGGTTTGACAGCGGCATTTCTTCCAGAAGGGCAAGCAGTTCTGCAAGTCGCGCCG
TATGCGGCAACCGTGTGCTCCGATTTACCCTCGCGCACGATATTTCCAAATAAGCGTCC
AAGTATGCCGCAAGTCCGTCCAAACCCATTCCCACCTAAAATAACATTAGAAACATTA
TCATAAATCGGAATATCCGAATCCCGAAACGTCAAAACCGCAACCTGCATACTGGCA
TCGTTAATATAAAATCAATGAGCTGTTTATGGTTTTTGTGTAATAAACATTATAATCC
GCCTTATTTACCTATTGCCCAAGGAGACAAATGGCACTCGTATCCATGCGCCAACTGC
TTGATCATGCTGCCGAAACAGCTACGGCTGCCGCGTTCAACGTCAACACCTCGAAC
AGATGCGCGCCATCATGGAGGCTGCAGACCAAGTCGACGCCCCGTCATCTGACAGGCGA
GTGCCGCTGCGCGCAAAATGCGGGTGC GCGGTTTTTACGCCACCTGATTTTGGCGGCTG
TCGAAGAATTTCCACACATCCCGTCTCATGCACCAAGACCAGCGCGCATACCCGACG
TGTGCCAACGCTCCATCCAACTGGGCTTCTCCTCTGTAATGATGGACGGCTCGCTGATGG
AAGACGGCAAAACCCCTTCTTACGAATACAACGTCAACGCCACAGTACCGTGTTTA
ACTTCTCCCACGCTTGGCGGTATCCGTTGAAGGCGAAATCGGCGTATTGGGCAACCTCG
AAACCGCGAAGCAGGCGAAGAAGACGGTGTAGGCGCAGTGGGCAAACTTTCCACGACC
AAATGCTGACCAGCGTCGAAGATGCCGTATGTTTCGTTAAAGATACCGCGTTGACGCAT
TGGCTATTGCCCTCGCGCACAGCCAGCGCGCATACAAATTCACCGTCCGCCCCACAGGCG
ATGTATTACGTATCGACCGCATCAAAGAAATCCACCAAGCCCTGCCAATACACACATCG
TGATGCACGGCTCCAGCTCCGTTCCGCAAGAATGGCTGAAAGTCATCAACGAATACGGCG
GCAATATCGGCGAAACCTACGGCGTCCGCTTGAAGAAATCGTCGAAGGCATCAACACG

Appendix A

-440-

GCGTGCGCAAAGTCAACATCGATACCGACTTGCGCCTTGCTTCTACCGGCGCGGTACGCC
GCTACCTTGCCGAAAATCCGTCCGACTTTGACCCGCGCAAATACCTGAGCAAAACCATTG
AGGCCATGAAGCAAAATCTGCCTCGACCGTTATCTTGCGTTTGCTGCGAAGGTGAGGCAG
GCAAAATCAAACTGTTTCGTTGGAAAAATGGCAAGCCGTTATGCCAAGGCGCAATTGA
ACCAAAATCGTCAATAACAGGTTGCCTGTAAACAAAATGCCGTCTGAACCGCGCTTCGGA
CGACATTTGATTTTTGCTTCTTTGACCTGCCTCATTGATGCGGTATGCAAAAAAGATAC
CATAACCAAAATGTTTATATATTATCTATCTGCGTATGACTAGGAGTAAACCTGTGAAT
CGAACTGCCTTCTGCTGCCTTTCTGACCACTGCCCTGATTCTGACCGCTGCGAGCAGC
GGAGGGGTGGTTCGCCGCCGACATCGGTGCGGGGCTTGCGGATGCACTAACCGCACCG
CTCGACCATAAAGACAAAGGTTTGCACTCTTGACGCTGGATCAGTCCGTGAGAAAAAC
GAGAACTGAAGTGGCGGCACAAGGTGCGGAAAAAATTATGAAACGGTGACAGCCTC
AATACGGGCAAAATTGAAGAACGACAAGGTGAGCCGTTTCGACTTTATCCGCCAAATCGAA
GTGGACGGGCGAGCTATTACCTTGAGAGTGGAGAGTTCCTAAGTATACAAACAAGCCAT
TCCGCCTTAACCGCCTTTTCAGACCGAGCAATAACAGATTCCGAGCATTCCGGGAAGATG
GTTGCGAAACGCCAGTTTCAAGTACGCGGACATAGCGGGCGAACATACATCTTTTGACAAG
CTTCCCGAAGGCGGACGGGCGACATATCGCGGACGGCGTTTCGGTTTCAAGCATGCGCGC
GGAAAACTGACCTACACCATAGATTTCGCCGCCAAGCAGGGAACGGCAAAATCGAACAT
TTGAAATCGCCAGAATCAATGTCGACCTGGCGCGCGCGATATCAAGCCGGATGAAAAA
CGCCATGCCGTATCAGCGGTTCCGTCTTACAAACCAAGCCGAGAAAGGAGTACTCC
CTCGGTATCTTTGGCGGAAAAGCCAGGAAGTTGCCGCGAGCGCGAAGTGAACCCGTA
AACGGCATACGCCATATCGGCCCTTGCCGCCAAGCAATAACCATTTGTAATGCGCTCCG
AACACGATAATTTACCGTTTCGAGCGGCATTTGTATGACCGTCCGACGGCATGCCCAA
GGGGGAAAAATCCCTATTTTCAGGCCAACCGCTATATAATGCCGTCTGAACCAACGAGAG
ATGCCATGCAAGCTGATTTTAACCGTCCCGTCTTGCGCGTCGATACCGGTACTTCCGTT
TGTCGCTCGCGCTGCGTGCCGACGGCGAAACCCGCTCTGTTCCATCAGGAAGTGGCAGCC
GCCAGTCCGAATGATTCTGCCGGAATCCGCACCTATTCCGCGATGACGGCATACCG
CCGCGGATTGGGTGCGGTGCTGACGACAGGTTCCCGCGCGTTTACCGGACTGCGTA
TCGGCATCGGTGATGCTCAGGGTTTGGCAACGCCGTTTGATACCCCTTAATCGCGGTAC
CCTCGCTCGATGCGCGCGCTCGCTGCGCGCGCGCAAAGTGCATCCTTGCCGCTACGG
ACGCTCGTATGGCGAAGTGTATGATGCTGATACGCTGAAGTCCACCGTTTGA
GCGATTATCAGGTTCGGCGGGCGGCGAGACATCCGCTGCGCGAGGGATGCGCCTTTTCAG
ACGGCATAGGACAGCGCTTCGCGCTGGAAGAAGCTCCGCGCTTCTCAGGACAGCCGATA
TGCCGACTGCGCGGACTTTCTCGCATTTGCGAGCAAGGGCGGTTATCCTGCCGTCCATG
CCGCACACCGCGGTTTGTCTACGTCCGCAACAAAATCGCCTGACTGCCAAAGAACAGG
CCGAACGGAGAGCGCGCCGCTGAACATCCGCCGTGCCGTTTGTGCCGATTGTGAGGAGCT
GGCCGCACTCGATGCGCTGTGCAACCCGTCGCGATGGACGCAACGCCAATTGAGTCCGC
ACTGTTTTCGCGCTCCGAACAGGTTTCTTTCGCGAAAAAGACGGCGGATTGCGCGCTT
TATCGTTTGGCAGAACCTTGCCCGACGAATCCGAACCTGCACTGATTGCCACCGCGCCGA
ATGCCCGCGCAAGGAATTGCGTCCGCGCTGCTCGAATATTGGTTACACATCTGCCCGA
AGACACGCAACCGCTGCTGCTCGAAGTCCGTGACGGAACACCGCGCACAGGCACTGTA
CACGGCGCAGGCTTACGATTACGGGACGGCGGAAAAAATTATTACCGTACAGCCGACGG
TAAAACCGAAGATGCCGTCTTAATGGAGAAAAATATGTTAAGCGCGCGCTACCTCCACCTG
CACGAAGCTTTGGGTTTGGGTCCGATGTGGCTGAAACAGGCGCGCGCGCTCTGCCGCC
AAAAACACACCGCACCCCTCGGCACAGGACGTCCTCCAAACCGTCCGCGCGCGCGGATC
CGCCCTTCCCAACCCCTAACCGGTACGGCGCGGCTCGAAACGATGAAAGCGTTGGAACAC
GCGCGCTTACCTACGCGCAACCCGCGCTGAAACCGAAACGCGCTCTGCCCGCGCTTCA
GACGGCATCGCCCCGTTCCCGCGCTTCGGGCATCACCAAGCTTGCCGTCGTGAGCCTT
TGCCACCGCATCGAGGATGCGGTTTACGGGCAACTGTTCCACGGCAAGCAGGATCCTG
CTCGACAACATACTCAAAGCCGTAGGACTGGATGCCGCTATGTCCACAAAACCTGTTGG
GTGAAAACCGCGCGCTCGGCAACCCGATGCCGTGTAACAGGCGCTCGCGAATGCGCTG
GGTCAATCGCCGCGAATCGACGCTGCGCGCGCGCGGCTGTCCTTTTCTCGGGCAG
GCTTTTGTCCAGCTGAACGGCAACAGATGATTGAACTTTGTGCGGACGCGCTCCCTTC
TTCATCATCGACCATCCGCGCGGCTTTTACGCCAACCGCAACTCAAAGCCGCGCGCTGG
CAGGTGTTGAAACAGTTGAAACGCGCCTTGCGGCAAGGCGCGCGAGTTGAAGCGCGCG
CACGGGCGGTAGATACGCAACTGCGTCCCAATATCTGACAGAAAGCAAAAATGACCGA
TTTCCGCCAAGATTCTCTCAAATCTCCCTCGCCCAAAATGTTTGAATTCGGCGAATT
TACCACCAAGGACGAGGCGGTCGCCCTATTTCTCAATGCCGCGCTCTTAAACGACGG
CTTGCCACGCTGCAACTGGCAAAATTTTACGCACAATCCATCATTGAAAGCGGCATCCG
ATTGATATGCTGTTCCGTCCCGCTACAAAGGCATTTATTTGGCGGCGGCAACCGCGAT
GATGCTGGCGGAAAAAGCGGTGAACGTCCCGTTTGCTTACAACCGCAAGAAAGCCAAAGA
CCACGGCGAAGGCGCGGTGTTGGTCGGCGCGCGCTTAAAGGGCGCGTGTGATTATCGA
CGACGTGATTTCCGCGCGACATCCGTACGCGAATCGATCAAACTGATTGAAGCGGAGGG
TGCAACCCCGCGCGGTGTGCGCATCGCGCTCGATCGCATGAAAAAGGCACGGGTGAATT
GAGCGCGGTTACGGAAGTGAAAAACAATACGGTCTGCCGCTCGCCCCATCGCCAGCCT
GAACGATTTGTTTATTTCTGTTGCAAAACAACCCGAATTTCGACAGTTTCTCGAACCCGT
CCGAGCCTACCGTCCGCGATACGGCGTAGAATAAAAAACAAGCATATGCCGTCCGAACCG
CCTTACGCTCAGACGGCATCAAACCTGACACACAGGAGAAATACCATGCCCGCTGTT
TCTGCCCCCATGCAAAACCCGCTCTGGGTCAAAGAAACCAACTCAATGTGCCCAAG
GCTTCGTCGTCTGCCAAAAATGCGAAGGACTGTTTAAAGCCAAAGACCATCTGGCAAGCA
CGAAAGAACCCATATTCAACGATTGCCCCGAGGCTGTTTCGGATGTCAAACCTGTTACC
GTATCGGCACGCGGCCATCGGCAAGAAACAGATTTCCTGTCGAAATCGCCGGCATCC
TCAACGGCGGTACCAACCCAGCCGATATTCCGCCCGCAACCGCGCGCACCTGCTGCC
CACCGCAGGTTACCGTACCGCGCGCGCGCGCGCGCGCTCAGGATGGGTTCAACTGGACGA
TTGCAACCCGTGTTGCCCTTATCGTCTTATGACAGCTTTCCTACCTCGTCATCTAT
GAGCGCGCCGACCTCTTGTGCGCCACTTCCGCGAAGCCGTCCCTACATCCGCCAAAT

Appendix A

-441-

GC GCGG CAAAACGCTGGTGC GCGGCATAGACGACCGCTGCTCGAAGGTGATACCTTAAA
CAAGCTCGCCGCCGACATCGGGCTGTTGTGCGCAACTGGGCTCAGGCTCGTCTCATCCA
CGGCGCGCGCCACTTCTCTGACCGCCACGCGCGCTCAAGGCCGACGCGCATTATTG
CCGGGGCTTGCGCGTTACCGACGAAACCTCGCTCGAACAGGCGCAGCAGTTTGCCGGCAC
CGTCCCGACGCGTTTGAAGCCGATTGTGCGGCAGCGTTTCCGGGTTCGCGCGCGCGCC
TTCCGTCCTCGTATCGGGCACTTCTGACCGCCGCTCCGATAGGTGTGATTGACGG
AACCGATATGGAATACGCGGGCGTTATCCGCAAAACCGACACCGCCCTCCGTTTCCA
ACTCGACGCGGGCAATATCGTCTGGCTGCGCGCGCTCGGACATTCTACAGCGGCAAGAC
CTTCTATCTCGATATGCTTCAAACCGCGCGCTCCGCGCGCTCTCGCTTCAGGCGCAAAA
ACTCGTTTACCTGACCTTTCAGACGGCATTTCCCGCCCCGACGGCACGCTCGCCGAAAC
CCTCTCGGCACAGGAAGCGCAATCGCTGGCGGAACACGCGCGCGCGAAACGCGACGGCT
GATTTCTGTCGCGCTTGCCGCGCTCGAAGGCGCGTGCATCGCGTCCAATCTCAACGG
AGCCGCGCAGCGCAGCTGCTGCTCAAGAACTCTTACCCGCAACGGCATCGGCACGTCCAT
TGCCAAAGAAAGCTTCTGCTCCATCCGGCAGGCGCACAGCGCGACATCCCGCACATCGC
CGCCCTCATCCGCGCGCTGGAAGAACAGGGCATCTGCTGCACCGCAGCGCGAATACCT
CGAAACACATTTCCGAATTTCCATCTCGAACACGACGGCAACCTGTACGGTTGCGC
CGCCCTGAAACACTTTGCCGAAGCCGATTGCGGCGAAATCGCTGCGTTGCGCTCTCGC
GCAGGCACAGGACGGCGCTACGGCGAACGCTGCTTGCCACATTATCGATAAGGCGCG
CGGCATAGGCATAGCAGGCTGTTGCGACTGTCCACAAATACCGCGCAATGGTTTGCCGA
ACGCGGCTTTCAGACGGCATCGGAAGACGAGTTGCCGAAACGCGCGCGCAAGACTACCG
CAGCAACGGACGGAACCTCGCATATTCTGGTACGTGCGCTGCACCGCTGACCGCAACGGAA
AGCCGCGCGAGAAATGCCGCTCTGAACCCCGTTTACAGACGGCATTTCCCGATTATATAGT
GGATTAAATTTAAATCAGGACGAAGGCGACGAAGCCGACAGTACAAATAGTACGGCAA
GGCGAGGCAACCGTGTACTGTTGTTTAAATTTAACTCCACTATAAGACCTGCCCAACCTCA
AGGACCCGATGAAATCTTACCCGACCCCTACCGCCATTTGAAACCTCGATTCCGCC
GAAACGCAAACTTCGCTGCTGAAGCGAATGCCGAAACGCGCGCGCTTTTTAGAAAAAC
GACAAGGCGCGCGCGCTTTCAGACGGCATTTTGCGCAGTTGCAGGACACGCGCGCAGATT
CCGTTTTGTGAGGAACACCGCGCGCGGATGTACCATTTCCATCAGGACGCGGAGTATCCG
AAGGGCGTGTACCGCGTGTGTACCGCGGCGACGTATCGTTCCGGCTATCCCGAGTGGAAA
ATCCTGTTTTCGGTGGCGGATTTCGACGAATTGCTTGCGCAGCATGTGTATTTGGGCGGC
GTGTCGCACTTGTGTGGAACAGCCCAACCGCGCTTGTAACTGAGCAAAATGGGCGAGC
GATACGGCGTACAGCTGGAAGTGGATTGGAAGCAGGGGAGTTGGTGAAGGCGGTTTT
CACTTTCCGGCAGGCAAAACCATGTGTGCTGCGCGCATGAAACAGCGTGTGGGTGTGT
CCGGCTTGGAACGAACGCCAGTTGACCCAATCGGGCTATCCGCGCGAAGTATGGCTGGT
GAACGCGGCAAGAGTTTCGAGGAAAGCCTGCCTGTGTATCAAATCGGCGAAGACGGCATG
ATGGTGAAACGCGTGGCGTTATCTCGATCCGAGGGTTCGCCGATTGATTTGATTGAAGCG
TCGGACGGTTTTACACCAAAACCTATTTGCGGGTCTCAGCCGAAGCGAGGCGAAACCG
TTAAACCTGCCCCAACGATTGCGACGTGGTCCGCTATCTGGCGGGGCATCTTTGCTGACG
CTGCGCAAGGACTGGAACCGCGCGAACCAAGCTATCCGAGCGCGCGCTGGTGGCGGTG
AAGCTGAATCGGGGCGAATCGGGGCGGCGCAGCTTTTGTGCGCCCGATGAAACGCG
GCATTGGAAGCGTGGAAACGACCAAGCGTTTGTGGTGGCGAGCCTGTTGGAGAACGTA
CAAGGCCGTCTGAAAGCATGGCGGTTTGCCGACGGCAAATGGCAGGAAGTCGAATTGCCG
CGCCTGCCTTCGGGCGCGTTGGAATGACCGACCAACCTTGGGCGCGCGACGTGGTTTAC
CTTGCCGCGCAGCGATTTCACACGCGCGCTGACGCTGTTTGCGCTGGATTGAACTGATG
GAACTGACCGTCATGCGCGCCAGCCGACGAGTTTGATTGACAGCGCATTAACGTGCAG
CAGTTTTGGACGACTTCGGCTGACGGCGAGCGCATTCCTTATTTCCACGTGCGCAAAAC
GCCGCGCCGACATGCCGACGCTGGTCTATGCCCTACGGCGGTTTCGGCATTTCCGAATTG
CGCATTATCTGGGACGATTGGCAAAATATGGCTGGAAGAGGGCAATGCCTTGTGATTG
GGCAACATCCGCGCGCGCGCGAGTTTCGGCCCGCGCTGGCATCAGGCGCGCGAGGGAATC
AGCAAAACATAAAAGCGTTGATGATTTATTGGCAGTCGTGCGCGATTGTCCGAACGCGGT
ATCAGTTTCGCCCGAACACATCGGCTTGACGGGCGGCGAGCAACGCGGACTGATTACTGCC
GCCGCTTCGTGCGCGAACCGCAAAGCATCGGCGCGCTGGTGTGCGAAGTGGCGTGACC
GACATGATCCGTTATCCGCTGCTCTCCGCGGTTCAAGCTGGACAGACGAATACGGCAAT
CCGCAAAAATACGAAGTCTGCAACGCGCGTTGGCGAATTGTGCCGTATCACAATCTT
TCAGACGGCATCGATTATCCGCCCGCGCTCATTACCACAGCCTGTCCGACGATCGCGTC
CATCCCGCCACGCGCTCAAGTTCTACGCCAAACTGCGCGAAACCTCCGCGCAATCTTGG
CTCTACTCGCCTGACGGCGCGCGCATACCGGCAACGGCACCCAACGCGAATCCGCCGAC
GAACTCGCCTGCGTCTTGTGCTGTTTTGAAAGAGTTTGTGGCTAAGGGCGGGGAGCGGC
ACTGCCGCGCGAATGAAAAAGGTGCTCTGAAACTGCTTTTTACAGACGACCTTTTTTAA
TGGTTGTTTCAAATCAAATATCTATGCCGCCGCCCCATCAGCACTTCTTACATCCGA
AGGCAAAAATCCGTAATGCCGCTGAAACGCTTCGTTGAACCGTCCCGCGTGGCGGTAGCC
GCAAAAGTGCATGGCGGCTTGACGGTGTGCGGGATTTCGATGAGGGCGAGCGCGTGTTC
CAGCCGAGGCGCGCAGGCATCCGGCGACGGTTTCGCGGTTTGCGCTTTGAAATAGCG
TTTCAGGTAGCATTCGTTACGTCCGACGCGCGCGGCGATTTCGGCGATGGTCAGCGGACG
GGCGAATTCTGTGTTGTCAGGATGTCGGCGGCTTCGTCTATGCGCGACGGCGGTAACGTT
GTGCTGGCGGCGGAAGGTGAAGCGCAATAATCGGGCGGAGAGTTCCAGCGCGCGCGCTTC
GTGCGCAAGCAGGCCGAAGCCGTCGATTGCAACGGCGGTTGCAGCAGTGGGCGAGGCCG
CGCCGTAGTGCCGCTGCGTTTTGCGCCAGCCGTTGCAGGGCGAATCGGCCATTGTTT
CGGGCAAAACAGGCGTTGCTCCAGCAAGCCTTCGTGCTGCCAGCGCGCAGTTTTTCCAG
CGAAAAATCAAATGACGCGCGCATGCCGCTGTGTGCGGCGAGAGGTTTCGGATAC
GTCGCCCAAATCGCCGCTACAGTCAGATTTCCCGCGCAGATGGCGGTATTCCTGCC
GCCATTGTAAACCGTTCTGCCCCGACACCATGACGAACAGGCGCAGTTGTGGCTGAA
ATTGTGGATTTCGTTGGGAACGCGCCGTTCCGCGCGCGCGCATCCGCGACAAGGTGAT
GCCCCAATCGAAGCGGTTGATGCACATTTCCAGATGCAACCGGGCTGTTTTGCGTGC
AATGAGCGCGCTGTGGAACAGCCGTCACACGCCAGCCGATTTATCGGATCGGACATA

Appendix A

-442-

GGTTTGGTACTGGCGGTAGATGGCGGCGGTGTTTCATGATTGGATAGGAACGAGTTGTCTA
ACAAATGAATTAATAGGAATTATTACCAATAATCAAGCGCAGGGATTGGTTGAAACGGA
AAAGTCTGCTGAAAGGGTGTTCAGACGACCTTTTCCGTATCGGGAATTTGTTTTCGCG
TATCGGGAATTTTGCCTTTTGCCTGTTTCTGCAGTTGTTTGCTTAATAATAAACA
TTCTTATTCGTATGCAAAAGAACCGCACACCGTGAACCGCGTTTATTGGGCAGCCTG
CGCCGTCTGCTGACCGCTGTTCCGCCGAACCTGCCGCCGAAAAAAGTGTATCCGCCGC
ATCCGCATCTGCCGCCACGCTGACCGTGCCGACCGCGCGGGCGATGCCGTTGTGCCGAA
GAATCCCGAACCGCTCGCCGTGTACGACTGGCGCGCTTGGATACGCTGACCGAATTGGG
CGTGAATGTGGGCGCAACCACCGCGCGGTGCGCGTGGATTATTGCGAGCTGCATTGTA
CAAGCGCGCAACCGTGGGACGCTGTTTCGAGCCCGATTACGAAGCCCTGCACCGCTACAA
TCCTCAGCTTGTCAATTACCGCGCGGCGCGGCGCGGAAGCGTATGAACAGTTAGCGAAAA
CGCGACCACTAGATCTGACCGTGGACAACGGCAATATCCGCACCGCGCGGAAAAAGCA
GATGGAGACCTTGGCGCGGATTTTCGGCAAGGAAGCGCGCGCGCGGAATTGAAGCGCA
GATTGACCGCTGTTTCGCCCAAACCGCGCAAGCGCCAAAGGCAAGGACGCGGGCTGGT
GCTGTGCGTTACGGGCAACAGGTGTCCGCTTTCGCGACCGAGTCGCGGTTGGCAAGTTG
GATACACGGCGACATCGGCCTACCGCTGTAGACGAATCTTTACGCAACGAGGGGCACGG
CGAGCTGTTTTCCTTCGAATACATCAAAGAGAAAAACCCGATTGGATTTCATCATCGA
CCGTACCGCGCCATCGGCGAGGAAGGGCGCGCGCTGTGAAAGTATTGGATAACCGCT
GGTACGCGGCACGAACGCTTGAAGCGCAAGCAATCATCGTCATGCTGCCGCGAATA
CATTGTGCGCGGCGCGCGAGTTGATTACGCGCGCGAGCAGTTGAAGCGCGCGTT
TAAAAAGGCAGAACCCGTTGCGCGCGGGAAGTAGGGAGTCTGTGAAACGAGCTT
CCGAAGGAAGCGGGGGTTTTCGCGAAGCTAAAGTCCGCTTCAACGAATTGAAAGCAG
CCTGTATGTTGAAATACCGCTCAAGCAACCTACGGTTTGCCGCCCTCTCCCTAGCCCT
CTCCACAGGGAGAGGGATTGGTTGCGAGCTGCCTTTAAGGTTTAGGCAAAATTTTAA
CTTCGTTGAAGCTGCGATTTCAGAAAGCTCCGTTTAGCTTCGCGAAACTCCGCTTCCTT
CGAAAGTCCGTTTTCAGACGACCTTTTGGAGTACCGCAGGCACACGCATCGAACGGCTG
AATCAAAGATTACAGCCGATGGCAGTCCGACCCGAGTTTATGCGGCAACAGCGAGGCT
ACGGCAACCCGCCCCCTCTCCCTGTGGGAGAGGGTTAGGGAGAGGGCGGTAAAGCGCAGG
CTTACATCAAAGCCGATACGCTTCCGTTACAACCTCCGCCCACTGAAAGCAGCCTGCAAC
GAAGCCAAAACGACAAACCGCATCGTAACCAACCCCAACCATAGGAGAACCCCATGCAAA
ACGAAACCATCAACCTGAACAGCACCTTCCCGCATCAAAGAATCTGGCAGCCCGAAA
TCATCAACCGCCACGGGTTCGAATCCACTTGGTCAAACTTTGGGCGATTACGGCTGGC
ATACGCACGGATACAGCGACAAAGTGCTGTTTGGCGTGGAGGGGACATGGCGGTGGACT
TCGCCGACGGCGCGCATGACGATACCGAGGGCGAGATGGCGGTGCTGCGCAAGTTCGG
TGTCGCACCGCCCGCTTCGGAACCGGTGCTCGTTGGTGTGATTGAGTTGTCCGACC
CGTCCGAGGCCCTCTGAAACGAAGTTTCGGAAGGAAGCTGAGTTCTGCGAAGCTAAAA
GCAGCTGCACCTTCAATCAATATGCCGAAATACAACCCACCGCACACCAACACACAA
AGGAAATCCCATGACACGCTTCAATATTCCTGCTGTTTGGCGCCCTGTTGCCCGTGTA
CGCGCAGGCCGATGTTTCTGTTTTCAGACGACCCCAACCGCAGGAAGCACTGAATTGCC
GACCATCACCGTTACCGCCGACCGCACCGCGAGTTCCAACGACGGCTACACTGTTTCCGG
CACGCACACCCGCTCGGCTGCCATGACCTGCGCGAAATCCCGCAGAGCGTCAGCGT
CATCACATCGCAACAAATGCGCGACCAAAACATCAAACGCTCGACCGCGCCCTGTTGCA
GGCGACCGGCACCGCGCGCAGATTTACGGCTCCGACCGCGCGGCTACAACTACCTGTT
CGCGCGCGGCAGCCGATCGCCAACTACCAATCAACGGCATCCCGCTTGGCGACGCGCT
GGCCGATACGGCAATGCCAACACCGCCGCTATGAGCGCGTAGAAGTCTGTCGCGCGCT
GGCGGGGCTGCTGGACGCGACGGCGAGCCTTCCGCCACCGTCAATCTGGTGGCGAAACG
CCTGACCCGCAAGCCATTGTTTGAAGTCCCGCGCGAAGCGGGCAACCGCAACATTTCGG
GCTGGACGCGGAGTATCGGGCAGCCTGAACACCGAAGGACGCTGCGCGCGCCGCTGGT
TTCCACCTTCGGACGCGCGGACTCGTGGCGCGCGCGCAACGCGAGCGCGATGCCGAAT
CTACGGCATTTTGAATACGACATCGCACCGCAACCCGCGTCCACGCGAGCATGGACTA
CCAGCAGGCGAAGCAACCGCCGCGCGCGCTCAGCTACGCGGTGATCGCAGCGCAAG
TTATGCCACCGCCTTCGGCCGAAAGACAACCCCGCCACAAATTGGGCGAACAGCCGCCA
CCGTGCGCTCAACCTGTTGCGCGCATCGAACACCGCTTCAACCAAGACTGGAACCTCAA
AGCCGAATACGACTACACCGCGAGCGCTTCCGCCAGCCCTACGGCGTAGCAGGCGTGCT
TTCCATCGACCACAACACCGCGCCGACCGACCTGATTCCCGGTTATTGGCACGCGGACCC
GCGCACCCACAGCGCAGCGTGTATTGATCGGCAATACCGCTGTTGCGCGCGCAACA
CGATTTAATCGCGGGTATCAACGGTTACAAATACGCCAGCAACAAATACGGCGAACGCG
CATCATCCCCAACGCCATTCCCAACGCTACGAATTTTCCGCGACGGGTGCTACCCGCA
GCCTGCATGTTTGGCCAAACCATCCCGCAATACGGCACAGGCGGCAATCGCGGCTA
TCTCGCCACCCGTTTCCGCGCGCGGACACCTTTCGCTGATTTTGGGCGGACGATACAC
CCGTTACCGCACCGGAGCTACGACAGCGCACACAAGGATGACCTATGTGTCCGCCAA
CCGTTTACCCCTACACAGGCATCGTGTTCGACCTGACCGGCAACCTGTCTCTTTACGG
CTCGTACAGCAGCTGTTGCTCCGCAATCGCAAAAGACGAACACGGCAGCTACCTGAA
ACCCGTAACCGCAACAATCTGGAAGCGGCATCAAAGGCGAATGGCTTGAAGGCCGTCT
GAACGATCCCGCCGCTGATACCGCGCCGTAATAACACCTCGCCACCGCAGCAGGACG
CGACCCGAGCGCAACACCTACTACCGCGCGCCAAACCAAGCCAAAACCCACGGCTGGGA
AATCGAAGTCGCGCGCGCATCACGCCGAATGGCAGATACAGGAGGTTACAGCCAAAG
CAAAACCGCGCAAGACGGCAGCGCTGAACCCGACAGCGTACCCGAACGAGCTT
CAAACCTTCACTGCCTACCACTTTGCCCGCAAGCCCCAGCGGTGGACCATCGCGCG
AGGCGTGGCGTGGCAGAGCGAAACCCACACCGACCTGCCACGCTCCGCATCCCCAACCC
CGCCGCCAAAGCCCGCCGCGCAACAGCGCCAAAAAGCCTACGCCGTGCGCGACAT
CATGGCGCTTACCGCTTCACTCCGCGCGCGAACTGTCGCTGAACGTGGACAATCTGTT
CAACAACACTACCGCACCCAGCCGACCGCCACAGCTACGGCGCACTGCGGACAGTGAA
CGCGCGGTTTACCTATCGGTTTAAATAAGGTCTGTGAAACGAGTTTTCGCGAAGCTA
TAGTGGATTAACAAAAACAGTACGGTGTGCTTCGCTTAGCTCAAAGAGAACGATTCT

Appendix A

-443-

CTAAGGTGCTCAAGCACCAAGTGAATCGGTTCCGTACTATTGTACTGTCTGCGGCTTCG
TCGCCTTGTCTGATTTTGTGTAATCCACTATAAAAGCAGCCTGCACATTGAAAATGCCG
CCCAAGCAAACTTTCAGTTTGGCCGCTCGTCTAGCCCTCTCCACGGGAGAGGGGATT
GGGGTGAGGCTGCCTTTAAGGTTTCAGGCAAATTTAACTTCGTTGATACCGCGCTTTAG
CTTCGCAGAAGCTGCACTTTCAGACGACCTTTTGGAACACCACAGGTACACGCATTTAAG
GAATGCCGTCTGAAATGCCTGCCTCAATAACGCATCATGTTGCCGTCAATCTCGGCCGCC
CATGCATCGATGCCGCCCTGAAGGTTGTACAGGTTTCAAACCCGCGTCCGCCAAATAC
ATCGCCGTATGCAGGCTGCGGATACCGTGGTGGCAATACACCACAAGCGGCACATCATCC
GGCAGCTCGTTCTGCGCGACGCGGAATCAGATTTCATCGGGATATGCAGCGCATTTGGCAGC
GAACAAACCGCGCTTCTTCATCGGTACGCACGTCCAACAAACAAAACATCCGCCCTTCG
TCCATCCACGCTTTCAATTCGCGGGGCCAAGTTGCACAATATCCATCGCACCCCCCAA
AAAAACCAAGCAAAATGCCGTCTGAAGCCCCAAACCCGCTTTCAGACGGCATGACCTGTC
AACATCTTAAAAATCGAAACCGCCAAACGGATCGGCATCCTTATCATCAAATGCGCCAC
CAAGGTATCGAACAGCAGCTTCTCTTCAAACACATCGCCCTCGCGTAATCAAAGCGC
GCGTTGAACAGGCTTGCACCTACGATAACCACCATGCGTCCGCCATCTTTCAACTGTTT
TTTCAACACTTCAGGCACAAGGTTTACCGCACCGCCGACATAAACCGCATCAAACGGCGC
ACCTGCGGAAAGTTTCGTTCAACCCGTTGTTTGCACATAATCGATATTGTCAAACCCAA
GCCGTCCAACACCGCTTTGGCGCGGTTTGTCTGTTGCACATCGATGTCGTCGACACCAC
ACGACCAGCCAAATTTGCGCAACAGCGCGGTGCGCATAGCCCGAACCCGTGCCGATTTCAA
AACCGTATCGTTTTCAGCTTCAAGCCCTGCGCCAGCGCGCCACGACTTTCGGCTC
GAGCATCTTATGACCGTTGGCAAGCGGCAGCGCCATATCCGCATACGCCAAACCCGTCAA
GTCCTCATCGACAAAAGCTCGCGCGGAATCTCCGCCAAAGCGTCCAACACATCAAATC
CAATACATCCCACGGACGGATTGCTGTTGACCATATTGAACCGCGCTTTTCAAATC
CATTTAGTGCTCCGTCAATAATTGTTCCAACAATGGCAGGCATTATAAAACCACTCC
CGCCGCGCAACTTCGGCACGCGCCGACAGCCGTTTGTGTCAGTCTCAAACCGCTGACG
CGAAGCTCAAACCGCTTCTCAAATCTTCGCCAGTTTCGCCAAATACAAAGCATCCGT
CTCATCAAACCTGCGCAATGTTGCTGTCGCGTCCAACAGCGGATACAGCGCGCTC
TGAAAACAGCGGCACGACAATCTCCGAACGTGACAAAGACGAACAGGCAATATGGTCGGG
ATGCGCGTTGACATCCTTAACAACACCGCTTTCACCCCTTCGCCAAGCCTGACCGCACAC
CCCGCGACCGAAGCAATCCGCGTACACGCCAAAGGCCCTGAAACGGTGCCAAAACCAA
TTCGTCGGAACGCGTATCGCAAAATAAAACCCACCCAAACCAACCGAAGCGCTCCTT
CAAACCGCGCGCGTGTTCGCAAAATTCGCCACCAATCCGCTCGTCAGCCACCACAGA
CTCAATCTGCGGCAACCTCCCGATAAAGCGCGGCTTGTCCGAGCCGAAAAATGAAG
CGCGTGATCATCATCTCTATAGTTGCATACATATCAGCGCGCCATTATAAAACAGCCTG
CCCGAAACAACATTCAAACCGCGCGCGCGCTTCAAGTTGCGAACCAGCGCGCATAT
CCACTAACTTCACGTTGCACCGCGCCACAGCGCGCAGACAAAAAACACGACACGGAGC
AAAAAAGATGTATCGCAAAATCGGAATGTGGATCAAAATGGGTATCGGCAACTGGAA
AATGAACGGCCGCTCCAAAACAACACGCACTGATGACCGCTTCCGCTATCCACCCAC
CGCCGAACGCGTCTCATCGGACTCGCGCGCCGACCGTTTACCTGCTGCAACTGCACAA
CGCCATGCAATCGTTTAAACAACCGCATCCTCACCTGCGCCCAAGACGTGAGCCGCTT
CCCCAATAACGCGCGTACACCGCGGAAGTGTCCGCCGAAATGTCGCGCACACCGGCAC
AGACATCGTCTCATCGGACACTCCGAACGCAGCCTTTATTTCCGGCAAAAAACGAAAT
CCAACGCGCAAAATGGAAAACGTCCTCAACGTGCGACTCATCCGTTATGTGCGTCGG
CGAAGCCTCGAAGAGCGCGAAGCGGCAAGAACACGAAGTCATCGCCCATCAGCTTTC
CATCTGCAAGGGCTGGATACAAAAACATCGCCGTCGCTACGAACCCGCTCTGGCGGAT
CGGCACCGGCAAGTCGCCACCGTCGAACAGATTGCCGATATGCACGCATTTCATCTACAA
AGAAATCTTGTCTTGTGCGGAAGCGATGTTAAATCCGCGTCTTTACGGCGGAAGTGT
GAAAGCGGCAACGCGCGCGACATCTTCGCACTACCTTATGTGGACGCGCACTCGTCGG
CGGCGGTCATTGTCGTACGACTCCTTTACCGCATCATCAGTGCCGCACAAAATGCGTA
GAAAAATATGGAAGCTTCAAACCCCTAATTTGGATTGTTAATATAATTTCCGCTTGGC
CGTCATCGTGTAGTATGCTTCCAAACGCGCAAGGCGCGGATGCGCGCGCATTTTCGG
ATCGGGAAGCGGCGCGCAAGGCGTATTCGGCTCTGCGGCAACGCTAACTTCCTCAG
CCGCTCGACCGCGTGTGAGCAACATTTTCTTTGCAACCTGCATGGCTATGGTGTATAT
TCACACCCACACGACAAAAACGCTTGGACTTCAGCAACGTACAACAACTCAGCAAGC
ACCAAACCCGTAAGCAATACCGAACCTTCTGCCCTGTTCTCAGCAGCAGAAATAACA
GTTTTTCAAATCGCGACATGGTGAATTTGGTAGACACGCTATCTTGAGGGGTAGTGGCC
GTAGGCTGTGCGAGTTCAAATCTCGCTGTGCGCACCAACACACAAAAACGCTGAAAAAT
TCAGGCGTTTTTGTTCATCCCATCCAACGCTGTCAACCAATTCCAATCAATACAGGA
TTTCAGGCTGATTGTTATCCTGCCGTCCCCCTTCTGACAGTGCAATCCCGTCCAATCCG
CCCTAATTGAAGTAACCTAAAAATTACGGTATCTTTGCGGTATCTGAAAAATACCTCGA
AAAAATACCGCAAAAATAAGCTGAACGACCGCCAAATCAGGAATGCCAAGCGGAAAAAGA
GCTTTCGGGGAACTAGTCCAAAGACGTAGGGAACAAGGGGAAACCGTCCAAGATGCAGGG
CGGTTTTTTTTGGGTTTTTGGAAAAACCTATACTAGGAAGCGATACCCTTAGTTGTAC
CTTGTACCAGGGGAAAAGTTAGATAAATAAGCATATGAAATATAGTGAATTAATTTAAA
TCAGGACAAGGCGCGGCGAGCCGACAGACAGTACAATAAGTACGGCAAGGCGAGCCACGCTG
TACCGGTTTAAATTTAATTCACTATAAAATAAGAAAAAGATAAAAAATGGTAACAAATG
CGGTAACAAATGGTAACGAATCGGTAACAACTTTTGGGGTTTTCCGGTTTTTACCCTGT
TGGCAGTGGGAGCGTAGCGGAATGAAAAGCCAAACGCAAGGCAACGCGCTATTTTGAG
CAGGAATGGCGGTTAAACCGCTTGGTTATATACGGGGAATAGGAAGACAGCGAAACGCGC
TAAAAACGCAATTTGAGCCATTAAAAGCGATTGATTAAAAAAATATCAGGTTAGCCGCC
AGTGTTCAGGCGGCATAAACGGAGAAATTCGGGGCATAAAAAGGCAGCTTGGCGTGT
TGCTGTCTCTGTTAATCCAGTATCACTAATCAACGGCTACACAATGCGGATATTC
AAAAACCAATGGATAGTGAAATTTGCCAAGAAGCACAATAACGATTCCGAGCTGCTG
GAAGCGGTAGAGCGGGCGGATAACGGGCTGATAGACGCAGATTTAGGCGCGGCTGTGATT
AAGCAGCGCATAGCAAGGCAAGGACAAGCAGAAAGCGCGGTTATCGCAGTCTGATACTG

Appendix A

-444-

TTCAAACAGGCAGACAAGGCATTTTTTGTGTTACGCCTTTGCCAAGAAGACAGGGAAAAAC
ATTTCCGATATAAGAACTTGACGTTTACCGAAAAGCCGCGCATATTATCTGAAATACACG
CGGGCAGAGCTGGCGGCTTTGAAAAGAAGACGGCATTATCAGGGAGATAGAATCATGAAAT
ACAAAAACGAGGCATTAGCCGCCATTATGAAATGATGGAAGGGGCTTACAACATCGGCG
CAATCGACAAAAAGACCATGCGCGACTTTGACAAGTCTGCTGACCGAAATCAAACCGT
TGAGCGGCGGAGACATCAAGGCAATCAGGGAGAAGGAGGCACTATCGCAAGCCGCTTTCG
CCATCTATCTCAACGTGGGAAAAAATCACGTTTCGGCTTGGGAGCGGGCGTTAAAAAGC
CGAGCGGCGCGGCTTGAAGCTGCTGACCATCGTCAAAAACAAGGGCATCGAAGCCATTG
CGTAGCCGACTTGGCAAACGGCAAAATCAGCAAGTTCACATAGACCGCGTCTGTAATAT
GCCTGCCAAGACAGGCAAGACCGCCGAAGTGAATATCAGGGCGTAGCCGCATAAATGCCC
GACCGCATCAAACCAAGCCGAAACGGCGGCGGTGCAGACGACATAGCCCGACAGCAAGGC
ACGGCGCAGACGGGCGGAAACCCGAAACATCACCGACCGCGAGGTACGGGGATTTTTTG
CGCCCGTTGCAGGGGGGATTGGATTTAAGCGGCGCGGGCTTGAAGGCAAAACGGGTGGG
GCACAGAACTGTTTAAATGCACTGTAATCTCAAACGATTTCAGACGGCATTTTGAAACA
ATGGCTCAAATTTCTGATCCCTTCCCTTAACGCGGACGTTTTTTATTAACGCGCCCTT
ATTTCTGACACTTTGCTCATAAACCGGCATAACGGTCGGCAACAACCGTTTTAGATTTTC
TATACGGGCATTGTTTGGTCGGATGAGTAGAGGTAATAGCATAAATAAAGCCGTTTTGGTC
GTTTTCTGATTCATTTTTTCCCAAACCTTGACAGCGGCGCGGATGATAGCCTGCCTG
CGCCATCAACATCATTTCCCTTCTCATCGGCTTCTTCTTCCAGCTGCGGCTATAAGGCAA
GGTAAGACCGTATCCCAAAATATCCATACCAATCCGACCAATTCGGGATTAGTATC
CGGTTTTTGTCTAATAATACTGCGTGCCTATCTGCGCCGCGTATTGGTCAAGATTG
CTGCCCCGACCTTATTTTACCCTGTTTCATGACGGGCGTGCCTCATTTCATGCCCATTAAT
GGCGGCAATTTGCTCATCGGTGAGTTTGTGCTGACTATCCCGTATAAAACGCCAT
TTTTCCACCGGCGATTGGCCACGCGTTTCACTCATCGTTTTTGAAAACCGTCATTTTCCA
GTCAAACCTATGGCTGGTATTATTGCGCATCGGCATAAGGCAGCATACGTGAAATAC
TGCCTGACCCCTGCGGGCTGTTCTGGATGTTGATGATGATGATGATGATGATGATGATGAT
CTCAACCGTTTTTCAATAATCTTGGCAGCGCAGCGTTTCAATTGTTGGCGGAATCATGACC
GTAAACATCAGCAACGACCGCACAAAGCCCCCAATACCGAGATTACTGCCGACAGGCAGAG
TATCCGTTTAAAGGAAGGAAGGAAGGAATTTTCAATTTAGGTTTACTCCTTAAAAAATT
AAATTTCAAAAAATGCCGTCTGAATCCAAAACGGATTTTCGACGGCATCTTAACATTGT
TTAATGTTTTTAAAAAGATTTACACACGATGTTCTCCAGTCTGCCGCTACGGCGATGA
TTTTCTTGGCAGGCTTGCCTTCTATGAATTCACCGCGCTTCAGCGGCGTATTGGCGAG
CTTCTTCAGCGGTTTGTGCAAAATCAGCATAAATTTGCCAATAATTTCTCCAACTTTTTA
CGGCTGCTGCTGCTTTTTGCGGCAATATTGCGCTGAAGTTCAACTGTTTTCAAAATGGCA
GAAGAATAAATATCCCTTGTGAATTCAGTATCATGATTGAAATCAAATACCTTGGGAG
TTGGGCGCAATTTATTGATTTTTTGTAAAGTCCGCGACCAATGAATTCGATCGTATTG
GTCGCGCAGAAATTTGCACTGTTGGCGGATTTTGTCTCTGATATGTTGTTTTGGGAAA
TTGGATGGATAGTTTGTGTTTCAATTCATACATTTGCGCAAAATGTGAATTTCTCGGGGAG
TTGGTCGATACATTTCAACAGCCAGGAGCCAGCTTTGCGCTCCGCTATTGTTGGTGGC
TAAAAACAATTTGGATTTGCCATTTTTTTCAGAACGGTTTCGGGTTTCGATAATGCGGGAAT
GTCTATTAAAGAAATTTTGGCGCTTTTTCAGGCAAAAGGGGCGAGATTGATAGAACATAAT
GTGGTTTCGGCGGTTTTTAAATGCCTTTATTTCTGGGAATAATCATATCCGCGTGATGAA
ATGTTTGGGTACAGCACAATTTGCCGTATGGAGTAATCCGCTTTTTTATATGCAAGAAA
GAAAAGTTGGGCTTGGTATCTGACCGGATGCGCTCCAACATGGTGTGATATGCACCGTC
AGGCACGCTGTTGCCATATGGTTTTTTGATTTTTTACTCTTTAATTCATATTGCTCGTGGCA
ATTTGGGCAAAAGAGGTCTGCAACAGGTTTGTATTGGGCAATCTCTGCATCGGCTTGCT
TCCGCAACAGGGGCGTAGCCGTTTTTTTCCAACCAAGCCTCGCTCATTACACGGATTTT
ATGGGTTGCTTTTATTTTGTGCTTTTCCCAATTCGGTATCGAAAAATAAATTCATGTTTTG
GATTTTGAGATTTTCACTTATTCGGGTTCTGTCATGACGACAACACAATCCACCTTAAAAA
GGCGCTCTGAAACCTGTTTCCAGTTTTCAGACGGCCTTTATCCGTGTGGCTAAACCTTA
AAAGCGTTAGACGACGATGTTTCCAGTCTGCCGCTACGACGATGATTTTCTTCCGCG
GTTTGCCTTCCATGAATTTACCCGCGCTTCGGTGGCGAGTGGCGGCGCTTCGAGGTCGG
CTTTGGATGCGTCGGCGGCAACAGTGATTTGCGCGCGAGTTGCGGTTGACTTGAACCA
TCACTTCGATTTTCGATTTGACCAAGGCGGCTTCGTCGACTGTCGGCCAGCCTGCTTCCC
ACAGTTTCGCGCGCTTCAATTCGCTCCACAGGTTTCGACAGATGTCGGGACGATGGGCC
ACAACAGGCGTACGGCGGTTTCCAATACTTCTTGGGCGACGGCGCTCCTTGTTCGCGC
CGGTGTCGGTTTTTGTGCTATTGGTTGAGCAATTCATCACGGCGGCGATGGCGGTGTTGA
ACTGCTGCGCGCGCGCGTAGTCTGCTGACTTTGGCAGTGGTCCGCTGCACTTTTGGC
GCAGGTCTTTGAGTTCTTTAGACAAACCGTCTTGGCTGCTGCGAACGCTTTGACCGCTT
CGCCTTGCCTCAAGTATTTCGTAACGGTACGCCACAGGCGGCGAGGAAGCGGTGTGCGC
CTTCGACGCGCGTCTGCTGCTTCCATTGAGGAGTCTCGGGCGGTGCGGCGAACATCATAA
ACAGGCGGGCGGTGTCGCGCGCTAGGCGTTAATCAGTTCTTGGGATCGACGCGGTTGT
TTTTGGACTTGGACATTTTTTCCGTGCCGCTGATGACGACGGGCGAGCCGTCGGCTTGA
GGACGGCGGAAATGGGCGGCGCTTTGTCGTCGAACGTCAGCTCGACATCGGCGGGGTTGA
TCCAATCTTGGCGCTTTGCTGTTTTTTCGGGTAGTAGGTTTCGCAACGACCATGCGCTT
GCGTCAGCAGGCGTTCAAACGGTTCTGTCACATTGACTAGACCTTCTGTCGCGCATCAGTT
TGGTGAAGAAACGCGCTACAAGAGGTGCAAAATCGCGTGTTCGATGCGCGCGATGTATT
GGTCGACCGCGCGCCAGATTTTCGCGGCGGAGGATCGACCATGCCGTCTGAAAATTTTG
CGGACATGTAGCGGAAGAAATACCAGCTCGATTCCATGAAGGTGTCCATGGTGTGCGGTTT
CGCGTTTCGCGCGCGCGCGCAGCATGGGCGAGGAGTTTCGTAAAACTCGGGCATTTTTG
CCAGCGGCGAACCATTCCGCTCGGGTACGACGTTTTTCAGGCAAAACGACCGGCAATGGT
CGGACGGGACGCTACGTCGCGCATTTGTCGCAATGGACGATGGGAATCGGGCAGCCCC
AGTAGCGTTGGCGGAAATGCCCGAGTCGCGCAGGCGGATTTGGGTTTTCGGTTTCGCGC
CGCCTTGGCTTTGACGCTTGGCGGCGACGGCGTCGAATGCCGTCTGAAAATCCAGCCGT
CCAAGTCGCGCTGTTGACCAATACGCCGTTTTCTTTGTGCGCGTACCATTCTTGCCATT

Appendix A

-445-

GGTTTTCGTCAAATGCGTTGTGCGCCGACGGCAATGACTTGTTTTTTCGGCAGATTGTATT
TGGTGGCGAACTCAAATCGCGTTTCGTGTCGCGCGGAACCGCCATCACCGCGCCGTCGC
CGTAGCCCCACAATACATAGTTGGCAATCCACACTTCCAGCTTGTGCGCGTTGAGCGGGT
TGACGACGTAGCGCGCGGTCGGCACGCTTTTTTCTCCATCGTCGCCATATCGGCTTCGG
CAACCGAACCGGCTTTGCATTTCGGCAATAAATGCCTGCAATTCGGGTTTGTGCGCGCTG
CGGCGGCTGCCAGCGGATGCTCGGCGGCAACGGCAACATAAGTCGCACCCATCAGCGTGT
CGGGCGGGTGGTATAAACTTGCAGGAATTTCGCGTAATCGCCTTCCAAGCCTTGTTCG
TGTCGTCTGAAACGGCGAAGCGCACGGTCATACCGCGGATTTGCCGATCCAGTTGCGCT
GCATGGTTTTGACTTGTTCGGGCCAGTGTTCAGCTTGTCCAAGTCGTTGAGCAGCTCTT
CGGCGTAATCCGTGATTTTGAAGTAATACATCGGGATTTTCGCGTTTTTCGATCAATGCGC
CGGAACGCCAGCGCGTCCGTCGATGACTTGCTCGTTGGCAAGGACGGTTTGGTCGACAG
GGTCCCAGTTTACCGTGCCGTTTTTGCATAAAGCATGCCTTTTTCAAACAGCTTGGTAA
ACAGCCATTGTTCCAGCGGTAGTATTTCGGGTTTGCAGGTTGCGGTTTCGCGCGCCAGT
CAATCGCAAAACCTAGGCTTTTTCAGCTGGGTTTTTCATGATTCGATGTTATCGTACGTCC
AAGCGCGAGGGGCGACGTTGTTTTTCATCGCCGCGTTTTTCGCGCGGCATGCCGAACGCGT
CCCAACCCATAGCTGCATGACGTTGAAGCCGTTTAAAAGTTTGAAGCGGCTCAATACAT
CGCCGATGGTGATGTTGCGCACATGCCCATGTGACGCTTCCGCTGGGATAGGGGAACA
TGGAGAGGCAATAATATTTGGGTTTGAAGCGTCTTCGGAGACGTTGAAAATACGGGCGT
CGTCCCATTTTTTCTGCGCGCAGGCTCAATGGCGCGGGCGGATTTGTTCTTGCATAG
TCATTCTGTTTTCGCTTAAAAACGTTGAAAAATAAAGTCGGCATCAATTATAACAGGTT
GCCGGAAGCGGCGAATCGGCAGATTGCCGCGCAGGATGCGTAAATTCGCACGCGCATTTAT
CCGTATGCCGTACAATAACACCGCGTTTATGATACGCACGTTTTTATGCTAATATTAC
AAACCAAAATCAATGTTTAAACTCTCCTGATGCGGCTCTTCGAAACAAAAGGCAGACG
GGCATCGGGTAAAGAGGATTTCGATATGAAATCAAAACAAATCGTCAAACCGGGCTTG
GCAGTATTGGCGCGGGCGTCTGCTGCTGCGCAACCAAGCAACGTCAAAGCCGAC
GGCAGCAGCGACATCCGCTTTTCCCGAAACCTATTCCGTAACGCTCGACAACAAGCGC
GGCACATTCCCGACTTATGACGAACCTGGATCAGATGCGCCCGGCTGACCAAGACGAC
ATCTACAAAATCCTGGGCGCGCCGATTACGACGAAAGTATGTACGGCGTGCAGCAATGG
GATTACCTGTTCCACTTCCATACCCGCGGCTAGGTATCGACCCTGAAACACTTCCGGC
GTAGAAGATGTTACTACCTGCCAATACAAAGTGATTTTCGATAAAGACAAATTTGCCCGC
AGCTTCTACTGGAAACCCGCTCTTCCCGAAAGATGCCGCTGTCGCGCGCCGACCCCAAA
GCCGAGCCGCAAGTCATCATCCGCGAAATCGTCCGCGCAAAACCGAAACGTATCCGCCAA
TAATCCGACATGCCGTTCCGCTGTTTTAGGGATATTATGCGGCTGTCAATGGTTGCC
CCCGTATATGCACAGGGCGACGGGATACGGTCGCGGACTTATCCAAAAGAAAAAGTC
ATCGTCGATACATCCAAAGCGGAACCTCTGTTTCGCTGACGACCGTCAGTGCCACCCGTC
CTCATCGGTGTTGCCACGCCCAAGGGGACGTTCCGGCTGACGCTGAACAGTACCGACAAG
CCCGGATACGGCGGCGAAGTCATCGGTTTCAAGCAGGAGGTTGATTTCTTTTCGCCCTG
CACCGCGTTTGGAAATCAGATACGTCGGAAGGCGGAACGAACGCATCGCCTCCCGCTCC
GTGTCGACAGGATTATGACCAACGGCTGCATCAACGTCAGCGATGCGGTGTACGAAAAA
CTGCGTCATTATTTGTGTTGGAAGTGATTTGAAACAGACGGATACCGCACGCGCCGGTA
TCTGTTTTACATTGCCCCGATGCTGAAACAGACTGTCCGCCACGTCATGCCGCTGAA
ACCGCGCAGATGCCGCCAAGCCTTCAGACGGCATTGCTGCCCCGCTCCGACCGAACAAC
AACCATCTTTGGGAGAACCTTATGCCCGAACAACCGCATCTCTGCCGCGAAGTACGAGC
TTGCTGGCATTCAACCCCGCGTGTGGCGCAGGCGGAAGCAAAACGTCCTCCCTTTTG
GAACGCTTGGGATCCTGTCGATCGTTTTCATCAACCTCGACGAGTTTTTCGAAAGTCGT
ATGGCGTGGCTGAAGCGGCAACAAACGCTGCCCGCAGCGCAGGCTGGACAAACGGCAAA
ATGCCGTCTGAAACCATCGCCGACGTTACCGAAGCGGCGCGCTCCCTGATACGGCACACG
TACGACCTGTTCAACAAGACGCTCTCAGCCGAGCTGGCAACAAGAAGGCATCCATTTTAC
CGCCGCCGAAATGGACAGACACAGAAAAATGGATTGAAGACTATTTGACCGCGGAA
TTGCTGCCGATCTGACCCCATCGGACTCGACCTTCCACCCCTTCCCGCGCGCGCTG
AACAAATCGCTCAACTTCGCCCTCGAACTCGACGGCACAGCGCTTCGGCAGGCTTCG
GGGATGGCGATTGTGCAGGACACGATCCTGCGCGCGTGTGTTCCCTGCGCTCCGAA
CTGTGTGGCGGCGACACGGCTTCGTCTTCTCTCTCCTCCTGACGCGCCACGTCGGA
AAACTCTTCCCGGGCATGAACGTCAAAGGCTGCCACCAAGTTCCGCTGACGCGCGACAGC
GACTTGACCGTTGACGAAGAAGACCTGCAAAACCTCCGCGCGCCATTCAAAACGAGTTG
CACGACCGCAATACGGCGACGGCTGCGGCTCGAAGTCGCGGACACCTGTCCCGCTAC
ATCCGCGACTTTCTGCTCGCGCAATTCAAACGACCGCGCGCAACTCTATCAGGTCAA
GGCCCGGTCAACCTCGTGCCTCAACGCGTCCCGGACCTAGTCAACCGCCCGATTG
AAATTTCCACACACACGCGGGCAGACTGAAAGCCTTGGGCAAAACCGCGTCCATATTC
GATTTGGTGCGCCAATCGCCCATCTGCTGCACCAACCCCTACCAATCGTTTCGACCCGTT
GTCGAAATGATGCGCGAAGCGCGCGCGACCCCGCGTGTGCGTCAAAATGACGATT
TACCGCACCGGACGCGTTCCGAACCTCGTCGCGCGCTGATGAAGCGGCACTCGCGGCG
AAACAAGTAACCGTCGTCGTAACGATGAGCGCGTTTTGACGAAGCCAACACGTC AAC
TGGGCGAAGCAGCTCGAAGAGGCGGGCGCGCACGTCGTTACGGCGTGTTCGGCTACAAA
GTCCACGCCAAAATGGCACTGGTCATCCGCGCGAAGACGGCGTGTCAAACGTTACGCC
CATCTCGGCACGGGCAACTACCACCAAGGCACATCGCGCATCTACACCGACTTCGGCCTC
ATTACCGCGGACGAACAAATACCGCCGATGTGAACATATGTTTTAGGAAATCACAGGT
TTGGGCAAAACCGGGCGGCTGAACAAACTCTACCAAGTCGTTTTACCTGACACAAATG
GTTATCGACCGCATCGACGCGAAACCGAACGCAAAAGCGGCAACCGGCGCGGATT
ACCGCCAGATGAATTCTGTCATCGAACCACCGTCATCGAAGCCCTGTATCGGGCAAGC
CGGCGAGGCGTACAAATCGATTGATTGTGCGCGGTATGTGACCTTGGCGCGGGTGTA
AAAGGCTGTGTCGAAACATCCGCGTCCGCTCCATCGTCGCGCAGGACGCTCGAACACGCG
CGCGTGATTACTTCCATAACAACGGCACGGACGATACCTTTATCTCCAGCGCGGATTGG
ATGGGGCGCAACTTCTTCCGCGCATCGAACCAGCCACGCGGATTACCGCGCGCGAACTC
AAAAGCGCGTTATACATGAAGGACTGACCATGGCACTGGACGACAAACACCCACGCGTG

Appendix A

-446-

CTGATGCAGCCCGACGGCGGCTATATCCGCGCCGCACCTGCCGAGGGCGAATCCGAAGCC
GACCTGCAAAACGATTTGTGGACACTGCTCGGAGGCTGACCCGCACCGCCCAATCAAAA
ACCATGCCGTCTGAAACCTTTCCGTTTCAGACGGCATGGTTTACAGCAATCTAAACAGG
GCGGACCGAGTCAAAAACACACCTTCGCCATTCTGCACAAGCACTTCCCTATACGCT
CCCAACCCCAAGCCGCGCATTCAGACGGCATTATAGTGGATTAAATTTTAGGGGCTGT
ACTAGATTAGCAGATATGTTACCTTCGAAATATGAAGATAACGCACCTGCAATTAAGAA
AAAAGTACAGAAAGAACTGCTCCGTTTTTGTGCTGGAAGTTACCGCCGTTCTGCCGCC
GATATTTTGGGTATCCATCCCAATTCCGGCAGCACTGTTCTACCGTAAAATCCGCACGGTT
ATCAACCATCATTTAGCCTTGGCTGCCGATGAGGTTTTTGAAGGGCCCTGTCGAGCCGGAC
GAAAGCGATTTCCGGCGGACGGCGTAAAGGCAGACGTGGTCCGCGTCCGGCAGGAAAAGTG
GTTGTCTTCGGCATTCTGAAACGCAACGGACGGGGCTATACCGTTGTCGTAGATAATGCC
AAGTCTGAAACGTTACTCCCTGTCTCATCAAGAAGAAAATCATGCCGACAGCATTGTTTAT
ACCGATAGTCTGAGCAGTGCACAAAGTTGGACGTGAGCGGTTTTATCCATTACCGCATC
AACCATTCCAAGAGTTTTCAGACCGCTCAGAACCACATTAACGGCATTGAGAATTTTGG
AATCAGGCAAAACGCGTCTGCGAAAATTATAGTGGATTAAACAAAATCAGGACAAGGCG
ACGAAGCCGACAGTACAAATAGTACGAAACCGATTCACTTGGTGTCTCAGCACCTTA
GAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTAAGTGGTTTTTGTTCATCCACT
ATACCTTTCCGACAGCCGAACAAAACCCGAATCCGTCTGCACGGTTCCGGGTATATCTC
CAATACGGGCTCGTGTTCGGGAAACCGTCAAATCCGCATCGGCATCACATATATTTG
AAATTCGGATTGTTCTCGGCACGGTAAACAGCGTCGAGCGGTTGGCATCGCCGAAGCAAGC
TGCATATCGTCGGAATGGATGTTGCGCAACACGTCCATCAGATAGCCGATATTGAAACCG
ACTTCGAGTTCCGCGCCCTGATAGCGGATTTCGATTCTTCGCGCGCTTCTTCCTGCTCG
TTGTTGCTGCACACAACGCTCAACAGGCGGGGTTGCAAAAACAATCGCGCACCGCGGAAT
TTTTCATTTGGCAAGAAATCGATGCACGTTTCCAACGCGCCCAACAATTTGCCCTCGACAAC
ACGAAAATCTTGTGTTGTCCAAAGGAATCACGCGGTTGAAATCGGGGAATTTGCCGTG
ATGACCTTGCTGACGATGCTGCTGCCGTTGCATTGGAACGCACCTGTTTGTCCAGCAGC
TCGATTTGAATCCGATCGCTCGGGGTTGTTCAACAGTTTGAACAGTTCCAGCACCGTTTGG
CGCGGCAAAATCACTTCGCGCGCGGGCAAAATCCGCATCAATCGCGCAGGCTGCATAGGCA
AGGCGGTGTCCGTCGGTCCGCACAGGCGCAACTGGCTGCCCTCAACCTGCATCAGCAGA
CCGTTGAGATAATAGCGGATGCTCTGCACCGCATGCTGTACTGCACTTGGCAGCAGATG
GTTTTGAAACGCTCCTGCTCCAGCGAGAAAGTCGCGCTGATGTCCTCGCCGACATTATC
ATCGGAAAATCGCGCGGACGCGAGGCTGTCAGGGCAAAACGCGATTGCGCCGCTTCAGC
GTCAGACGGCTGTGCTCCCAATCCAGCGACACCAGCGCACCGGCAGGCAGCGCGCGCAAA
ATATCCTGAAATTTCTTGGCATTGGTGGTGATGCGGAAGTCGCGCGCGCCGCTTCGGGA
CCCGCAGTGTGATTTGGATTTCCAAATCGGTTGCCAAGAGTTGGTCTGACCGCCTTTT
CCCTCAATCAGGACGTTGGACAGGATGGGAGGGTGTGGCGCGCTTCGACGATGCCGGTA
ACGGCTTGCAACGGCTTGAGCAGGCTGTCGCGCTCGGCTTGAAATCAACATGTTGCT
CCTTTAAATCGGTTTGATAGTGGATTAAATTTAAATCAGGACAAGGCGACGAAGCGCA
GACGGTACAAATAGTACGGAACCGATTCACTTGGTGTCTCAGCACCTTAGAGAATCGTTT
TCTTTGAGCTAAGGCGAGGCAACGCCGTAAGTGGTTAAAGTTAATCCGCTATATCTTTAC
CCTTCGACGGCTCAAGTATCATGTCGCTGTAACGCTTTTCCATCAGTTTTGAAATC
AGAATCAGCAGCTTTTCATAATCCTGAGCCAATTCGGATCTTCTTCGCGCAGTTTCGCC
ACTGCCCTGATGCCGTGCATAACGGTCTGATGGTCCGCGCCACCAACGAATCGCCGATA
GACGGCAGGCTCAAGTAGTCACTTCTTGGTCAGGCTCATGCCACCTGGCGCGGACGG
GCAATGTTTCGTGTCCGTTCTTACCGAGCACATCGCTGATTTTGATGCGGTAATATTTT
GCCACCCGATCGATGATGATGTCGCGGCTGATGACTTTGTGCTTCTCGGCAATAATGTCC
TGCAAGCGGTACGCGCCAAATCGATGTCGATGACGGGACGGTTTCAAAAGCGGCTGCTC
GCTCCGACACGATTAACCGCGCCTTCAAGCTCGCGCACGTTGGAACGGATCAGATTGGCA
ATGAACAGCGCGGCTTCGTCTTCGATACTGATGCCGCGGCTTCGCGCTTTTCTGCAAA
ATGGCGATGCGCATTTCCAATTCGGGCGGCTCGAGTTCCAAGTCAGTCCCATGAAAAA
CGGGATTGAGGCGGTCGTCATGCTTCGATTTTCGAGGCAACACATCGCAAGTGAGG
ATGAGCTGTTTTTCTCGTTGTGGAAATGGTTGTACAGATAGAAAACTCTTCATCGTA
CGGTCTTTGCTTTGATGAACGATGATGTCGTCGATAATCAGCAGGTCGATGCTTGTAT
TGCTGCTTGAAACGCTCGTAAGTGTGTTGCGAACCGCCTTCATAAAGCTGCGGATATAG
TCATCCGAATGCATATAGCGCACTTTGGCATCGGGACGGTTTTTCAGCAGCTCGTTGCCG
ACCGCCTGCACAAGGTGGGTTTTTGCCCAAACCCGTGCTGCCATAGAGGAAGAACGGGTG
TAACTCTGCCCCGGGCTTTCCGCAATCGCCTGCGCGCAGCCGCGCAAGGCGGTTGCC
TTACCTTCTACCAACGTATCAACGCTGTAATCCGGAGACAGGTTGGTCTGCTCGTAACGC
GCCTCTTCCGATCGCGCTGCACGTCCGTCCGTGCTTTGGCACTGCCACCGATTCCGGC
CGGGAAGCAGACCCGCGAGCCTGACGCGGCTCGTGCGGCAGGTTTTTCATACGTTCCGCC
AAAATATCCGCCGCGTTTTTCGACGCGAGCGGTTTGACAGGCTCTTCAGACGGCAGCTCG
TCCAACAGAACCTCCTGCACGGGCTTCCCTCCGACACCGCATGCAAGGACGGCTCGGCA
GGTTCGACAGCACTTCAACCGCCGCCATCTCATACGCACGCCTTCTCCCGGTTTGAAT
ACGAAGCGGGAACGGCGGCGAGCAACTCTTCCCTACCGCTTCTATTTTCCGGCAAAAC
TGGCTCTTGAGCATATTGAGGCAAACTGGTTCTTCCGCTACACCCCAATACGCCACCC
TCCTCACCAACGGTAAGGGGCGCAATCCATTGCGCAAACTGCCCTTGAGGCAACATATCG
TGAAGACGGCGGAGGACAGCGGCAAACTCTGCTAATGTCATGGATAGGCTCGAATCG
GTAAAAATGAAATCGAAAAACAAGAAAAATATAATATTTTCAAAAAGAAAAACAATCTGTT
GAACGCACATCGGTTCAAAACGCGACTGCCCGATTATACCGACTCACGAATATTTATCC
ACAACCCGTGCAAAAATTTATCCACAGAAAGGCGCGGAAATCCGAGGCAATCGGGCAA
TCTTCTGCAAAATTTCTATTTGATTGACAAAAGCGGCAAAATGGAGTGTAATTCACGG
TTTAATATCTACCTTCTATTTTAGGAAACATCATGAAACGCACTTATCAACCTTCCG
TTACCAACGCAACGACCCACGGCTTCTTGGTGCCTCCAAACGCGCGCGGCGCGGCG
CAGTATTGGCCGACGCGCTGCCAAAGGCGGCAACGCCTGGCGGTATAATTTGGACTA
CCGCTTCGGAAGGCAGTACCGCTTGTGAAAACGGATGATTTTTCATCCGTTTTTGCAAT

Appendix A

-447-

CAGAAACCGCCGACGCGGACCTGCTGCAAGTTTCGCGCTCAAACGGCAACGGGCTGGG
CCATCCCCGCATCGGTCTCGTGGTTCGGCAAAAAACCGCCAAACGCGCAACGAACGAAA
TTATATGAAGCGCTTATCCGCGACTGGTTAGATTGAACAAAAACCGGCTGCCGCGCA
GGATTTTCGTCTCGCGTCCACCGTAAATTCGACAGGGCTACCGCAAAACAGGCAAGGGC
GGAACCTGGCACAACCTCATGTTTCGGCAACCCCGCAACCGGATGCAGGAAACAGGCATGATC
AGAACGGTACTCTGACAGCAAGTTTCAGACGGCAACGGGTTTCCCATACAAGGAACATCC
CGATGAACCTTCTATTGTCCAAACTCCTGCTGGGACTGATACGGTTCTACCAATATTGCA
TCAGCCCGCTGATTCCGCGCGCTGCCGTTATACGCGACCTGTTTCGCAATACGCGGTCTG
AAGCGGTCAAATAATACGGCGCATTCAAAGGCGGGCGGCTCGGCATCAAGCGCATTCGAC
GCTGCCACCTTTTCGGCGGACACGGACACGACCCCGTTCCCTGACCCGACGCAATATTCA
AATTGCACGCTTTCTTTTATTTCCCATCGGTTTCTATATAATGCCGTCTGAAGCTTCGG
GCAGGCGGACGACCGCGGGTATGAAGCCGCGCTTATTCGCCGTCTATCGGAACACGC
AACCTGCGGCATTTCCGACCATTCAGGAACTCTTATGGATTTTAAAGACTCACGGCGT
TTTTCGCCATCGCGCTGGTGATTATGATCGGCTGGGAAAGATGTTCCCACTCCGAAGC
CGTCCCGCGCGCCCAACAGGCAGCACAAACAGGCCGTAAACCGTTCCGCGGAAGCCG
CGCTCGCGCGCGCAACGCGGATTACCGTAACGACCGACACGGTTCAAGCCGTCTATGATG
AAAAAGCGCGGACCTGCGCCGGCTGACCTGCTCAAATACAAGCAACCGGCGACGAAA
ATAAACCGTTTATCCTGTTTGGCGACGGCAAAGAATACACCTACGTCGCCCCAATCCGAAC
TTTTGGACGCGCAGGGCAACAACATTCTAAAGGCATCGGCTTTAGCGCACCGAAAAAAC
AGTACAGCTTGAAGGCGACAAAGTTGAAGTCCGCTGAGCGCGCTGAAACACGCGGTC
TGAAAATCGACAAAGTTTATATCTTCAACAAAGGACGATCTGTTCAACGTCGCGTTTCG
ACATCGCAACGCGCAGCGGTCAAACCGCCAACTGAGCGCGGACTACCGCATCGTCCGCG
ACCACAGCGAACCCGAGGTTCAAGGTTACTTTACCCACTCTTACGTCGGCCCTGTTGTTT
ATACCCCTGAAGGCAACTTCAAAAAAGTCAAGCTTTTCCGACTTGACGACGATGCCAAAT
CCGGCAAATCCGAGGCGCAATACATCCGCAAAACCCGACCGGCTGGCTCGGCATGATTG
AACACCACTTTCATGTCCACCTGGATTCTCAACCTTAAAGGCAGACAAAGCGTTTGCGCCG
CAGCGAGTGAACATCGACATCAAACGCGCAACGACAAAGTGTACAGCACGACGCTCA
GCGTGCCCTTAGCCGCTTCAAAAAAGCGCGGAAAGCCGAGCCTCCATCAACCTCTACG
CGGCGCGCAGACCACATCCGTCAATCGCAACATCGCCGCAACCTGCAACTGGCCAAAG
ACTACGGCAAAGTACACTGGTTCGCGCTCCCGCTCTTCTGGCTCCTGAACCAACTGCACA
ACATCATCGGCAACTGGGCTGGGCGATTATCGTTTAAACCATCATCGTCAAAGCCGTAC
TGTATCCATTGACCAACGCTCTTACCGCTCTATGGCGAAATGCGTGCCGCGCACCCCA
AACTGCAAGCCATCAAAGAGAAATACGGCGACGACCGTATGGCGCAACACAGGCGATGA
TGCAGCTTACACAGACGAGAAATCAACCGCTGGGCGGCTGCCTGCTATGCTGTGTC
AAATCCCGCTTTCATCGGATTGTATTGGGCATTGTTGCGCTCCGTAGAATTGCGCCAGG
CACCTTGGCTGGGTTGGATTACCGACCTCAGCGCGCGGACCCCTACTACATCCTGCCCA
TCATTATGGCGGCAACGATGTTCCGCCAACTTATCTGAACCCGCGCGGACCGACCCGA
TGCAGGCGAAATGATGAAATCATGCGGTTGGTTTCTCCGTATGTTCTTCTTCTCC
CTGCGGCTCTGGTATTGTACTGGGTAGTCAACAACCTCCTGACCATCGCCAGCAATGGC
ACATCAACCGCAGCATGAAAAACAACGCGCCCAAGGCGAAGTCTGTTTCTAAATGCGCG
AGCATGAAAAATGCCGTCTGAAACCTGTTTACAGCGCATTTTATTGCCACCCCTATC
GGGGCGGAAATCTTCAACCCGCATACATCACAATAATCGTGGGCGTTTTTTTCAGATTGG
GCATTTCTTTTCTTTTCCGCACTGCACGATTGTTGACTGATGATTTCCTGTGTCGCGCA
AGGTCAAATCCGTAGCGTGCATAAACGCGTTTCAGGATGCAGGTTTCCACCGCATCGG
CAAGCAGCGCATCATTTGCGGTAAGGCGTTTCAATAAAAAATGCGGCTCGCGCGCACTGGC
GCGAAGCGTGTTCCAAAGCCGAAAGCGTGAATCCGCTCGTTTTTTTCAGACGGCAGAT
AGCCTTTAAACGCAAACTCTGCCGTTTCGACCCGAAGCCATCAAAGCCAGCAGCAGGC
TGGAAAGCCCGACGACGCGGACGCACTTCAAACCGTGTATTGCGCAATGCCACCAAT
TCGCACCCGGATCGGCCACAGCCGGGCAACCCGCTCACTGACAATGCCCATACTGCGCC
CTTCTTGCAAAAGTTTCAGCAATTCGGGCAAGTCTTCAATCCGTATGTTCAATTCACG
TTTGAGATTACGCTCGCGGATAGGCGTAGTCACGCCCAATGTTTCAAATGCGCACGCG
CCGTTTTTTTCGCGCTCCACGACAAAATCCGTCAGCCCGACAATCGCCTGTTGTTTCATGCG
GCAACAGGCACGCGGTGTAGGCGTACCCAAAGGCGTAGGAATCAAATACAAAACAGGAG
ACATCATTCCTCACTCATCGGTTAAAAATGCCGTCTGAGCCTTTTACAGCGGCATAAACG
GGCAGTTACGAACCTCCACGCCCTCATTTTTCAGAAATCGACCGACGGAACCGGCG
AAACCGATTAAAGCATTTCGGATCGGTACTCTCAATCCTTTCAATCAGCAATGCACCCAAA
TCCTCACTCTTACGCGCACACGAACAATAAACCGCATCAGGCTCGCGCTCCAAATAGCGG
AGGATATGCAACTCGTCCAACCTGCCTCATCACGACACCGCTTATCGATATGCCGCGC
ATCCTGCCCGTAACCGTATTCAACAGCACGATCGCGCTGTAAACTCAATCTCCCTGCCG
CTCAAGTGATCAGCATCTTTGCGCATTGGCAAGGTTTCATCGGCTTGCCCACTGCCTG
CCGTGCGACACGCCACCTGGTCCGCAACGCAATCAACGCTCTGGGAAACGCGCGGTC
AACGACCGCGCTTACCTTCCGCAAGGCGCAATGCCGTCTGAGGGGCGGATTCCCCAAC
ATCGGCGTTTCGTCAAATCGGGGACGCGGCTGAAAGGCAATGCCGAGCCTTTCCATC
TGTTGCGGGCGGAAACCGAATCGTACCCAAATCAAAGGCAGTTCCAAACCCATCCCA
TCCCTTACCGTTGAAACACGCGCGGAGGCGAGTAAATCCAGCCATGCGCGGAAAC
ACGGATACCCGCTTCCGCGTACCGCAACATTTTCTTAAATAATTGACGTTAGAACAT
CTAAATTATATCATATCCGTTTATGTAGACCCCTAATTTGATTGACTTGGAAATTTTG
CCGCCAAGGCGAGAACCCTGCAAGGCAAGTTTCTGCTGGAAGAATTGGATGAACGCGTCA
GTTGCGACGATTATCCGCGGACAGGCAGACCAAAATATCGTTTACACTGACCGGCGGTC
GCGACCGGCTGCAACGCGTGTTCCTGACCTGAACGTCAAAGCCGATATGCCCTGATTT
GCCAGAGATGATCAAACCATGCCGTTTCATGCTTGTGAAAGCAGCGGATCGTCCCTGT
TTTCAAACGAAAGTCTTGGACGAATCCATGCTTCCGACGAAAGAACTCGAAGGCATAC
TGATTGAAAAAGAACTCGAGCTGCGCACATTGGTAGAAGACCAATCTGATGTCCTGTC
CCTTTTCGCGCGGACACGAGACTGCGGCGACAATGGGACACTGGAAGAATCAATCGGG
ACAAACCAACCCCTTGTGTTTTGGCAGGTTTGAAGAAGCAATTGATTAGGACACAGTT

Appendix A

-448-

TATTTATCTAGGAGCTTGAAATGGCCGTTCAACAAAACAAAAATCCCCTTCCAAACGCG
GTATGCACCGGTTTCGCACGACGCGCTGACCGCGCCTGCACTGTCTGTGCGACAGCACAACCG
GCGAAGTACACCGCCCGCACCACATCTCCCCAACGGTATGTACCGCGCGCGCAAAGTGG
TCAAAGCCAAAGCGGAATATCCCTATTCGACTGACTGAAAAAGCCAGAACATTGCCATG
CAATTACTGGCTTTTTTTGCACTTGGACGCACCATCCGTCCAAACTTTGCGCCATACGTCAA
CACACAGGGGCAAAGCGTTCGGTATAATACCCCGTGAAAAATATCCAAAAGCCCCAACCA
CCAAGGAAATTCGGATGAAACAGAAAAATCTGGTACACCTACGATGACATCCACCGCTCA
TCAAAGCATTGGCAGAAAAATCCGGAACGCCGACATCAAATACGATGCCATGATTGCCA
TCGGCGCGCGCGGCTTTATTCGGGCACGTATGCTGCGCTGTTTTCTGGAAATTCGGATTT
ATGCCGTAACACCGCCTATTACGACAGCGACAACGAAGGACAGGTTACCGAAGAAGTCA
AAAAAGTCCAATGGCTCGACCCCCGTTCCCGAAGCCCTGCGGGGCAAAAACGTACTCGTCG
TCGATGAAGTGGACGACAGCCGCGTAACCATGGAGTTCTGCCTGAAAGAACTGCTCAAGG
AAGACTTCGGTACGATCGGAGTCGCCGTACTGACGAAAAAATCAAAGCCAAAGCAGGCA
AAATCCCGAAGCAGCATTCCCTATTTACGCGGCATCACCGTAGAAGACTGGTGGATCACT
ATCCGTGGGACGCACTCGACATCGACGAACACAACCGCCTTGCCGAGGCGCGCGGAGCT
GACCCCTTCAGACGGCATATTTCCGAACCGATGCCGTCTGAAGCCCGCACGACCCCTGC
CGCAGACCGAAAAACCTACCGGAGAAACCCATGATTACATTGGCCGTAGATGCCATGGGG
GGCGACCAAGGACTTGCCGTTACCGTACCCGGCGCAACCGCATTCTCCAAGCACACCCC
GATGTCCGCCTGATTATGACCGGCGACGAACGCAACTGCCCAAGCCCTGACCGCGGCA
GGCGCACCGATGGAACGCATCGACATCTGCCATACCCCAAGTCGTCGGCATGGACGAA
GCCCCGAATCCGCCCTGAAAAACAAAAAGACTCCTCCATGCGCGTCGCCATCAACCAG
GTTAAAGAAGGCAAAGCCCAAGCGCCGTATCCGAGGCAACACGGGTGCGCTCATGGCA
ACCGCACGTTTCGCTCTCAAACCATTCGCCGATCGAACGCCCGCCCATCGCCAAATTC
CTTCTTCGACACCGCAGCAGCTTACCCTTGCACTCGACCTTGGCGCGAACGTCGACTGC
ACGTCCGAACAGCTCGCCCAATTTGCCGTTATCGGCAGCGAACTCGTCCACGCACTCCAT
CCTCAAAAAGGACAGCCGCGCGTGGGCTGGTCAACGTGCGCACGGAAGACATCAAAGGT
ACGGACACCGCTCAAACAACTACAACTGCTGCAAAACAGCAAACTCACTTTATCGGC
AACATCGAAAGCAACGGCATCTCTACGGCGAAGCAGATGTCGTCGTCGCCGACGGCTTT
GTCGGCAACGTCTAGTCTAAAACCATCGAAGGCGCGGTCAAATTCATGAGCGGAGCCATC
CGCCGCGAATTCCAAAGCAACCTGTTCAACAACTTGCCGCGGTTGCCGCCCTACCCGCC
CTCAAAGGGCTGAAAAACAACTCGACCCGCGCAAAATCAACGGGGCCATCTGCTCGGG
CTGCGCGGCATCGTGATTAAGCCACGGCGGCACAGACGAACCGGTTTCCGCTATGCC
CTCGAAGAAGCCTACCACGAAGCCAGTCCGCGGCCCTTTCCAAAATCGAACAGGGCGTA
GCCGAACCACTCGCCGCACTCGAACTGCCAAGCGGTCCAAAACGAAATGTCGGCGGT
CTGTAACACACAGATGCCGTCTGAACGCCCCCGCCCTTTAGACGGCATCCGCCCGCA
CCAAACCTGCGGGCGCGGACGGCGATGCGCCTGTCCGGCACTTCCCAAATATCGCCTTGT
AAAAAAGGAGTATTTGAAAAATGAAGACATTAGAAAAACGGATGAAGCTCTAGACAAA
CGGATTTGAAGTTCGGAAAAATCCCTTGAAGGACAGGCTTGATGCCGCTGATTGAATCC
GCATTGGATTATATTCATTATTCGGAACGTTTTTTGGCTTTTGAAATCCTGTGTACTTAT
ATCGAAGATTTCGATGTCGGGCTGACGGAACAAGAAATCCCGGGAAATTTCTTTTATCAAC
AAGGAATTTGAGATGAGAAACAGTCCGATTAACCAATAAAGCCAAATGGGTTGATAAACA
TGAAACATCGACGGTCTGTTTTTGGCGGATTTTTTATGGCAGACAACGGAGAGCGAATCC
AAATCCCGCTTTTGGAAAAATCCTGACATTAGGGAATCAATCACTTTTTTCCGTATCAA
ATTTTGAAAAAAGCCGCGCTCTGTTTTGAGAAATCATCCCCGAGCCGGAATTTGGCA
ATACCGAATTAAGTCTGCTATTTTAAAAAAGGATATTATAGTGGATTAAACAAAAACAGTA
CGGCGTTGCCTCGCCTTGCCGTACTGGTTTTTGTAAATCCACTATATCAGACGAAAAACA
ACACCCGCGCAATAGCCTGACGGCAACCCGGCAATCAAAATGCCGTCTGAAGCAGCTTG
GGCTTTACAGACGGCATTTCCTTCGCTTAAACAGCGTATCGGCAACCCCGCCCTGCCTGT
CCACGGCAATCTGCATCTGAAACCATCTGTATCCCAAACACACCCCATCCCTGTTTC
CATCATGTGCACCTGTCCGTATTGGGCAATCATCTGTTTTTCGCTTACAATAGCCGAAT
CTGAACCACTCTTAAAGAGCGGTTCCCATGCAAGTATGCAAAATTTCCGGCACAGGC
AGCTATCTTCCCGCAACCGCGTCAGCAATGACGACCTTGCCCAAAGGTAGATACCTCT
GACGAGTGGATTACCGCGCGCACGGGCATCAAAATCCGCCATATTGACGCCGAAACGAA
AAAACAGCGATCTTGCCGCCGAAGCGGCGCACCGCGCGTGGATGCAGCCGGATTAGAC
AGCGGCGAAATCGATTGATTATCGTGGAACGGCAACGCCGATATGCAGTTTCCGTCT
ACTGCGACCATCTGTCAACAAAAATTTGGGCATCACCAACGGCTGCCCGCGTTTGACGTA
CAGGCGGTGTGCGCGCGCTTTATGTACGCGCTGACCACGGCAACGCCCTACATTAAAGC
GGTATGGCGAAAAACGCGTGGTATCGGCGCGGAAACCTTCAGCCGATTGTAGACTGG
AACGACCGCACAACTGCGTATTGTTGCGGACGCGCGCGGCGCGGTGTTTTAAGCGCG
TCGGACACGCGCGGCATCATCCACAGCAAACTCAAGGCCGACGGCAATTATCTGAAACTC
TTAAACGTCCCCGGGCAATCGCCTGCGGCAAGTTTCCGTTTCGCGGTACATTTTCGATG
GACGGTCCCGCGGTGTTTCAAGTTTGGCGTCAAAATGCTGTCCAAAATCGCCGATGACGTT
ATCGAAGAGCAGGTTACACCGCGCTCAAATCGACTGGATTGTTCCCATCAGGCAAC
CGCCGCAATTATCGAATCGACCGCGAAACATTTAGGTTTGAGTATGGACAAAGTCGTCCTG
ACCGTCCAAGACACGCGCAACACATCCGCCGATCGATTCCGCTGGCTTTGGATACGGGC
ATCCGACGCGGACAAATCAACAGCGGTCAAACCTGCTGCTCGAAGGCATCGGCGCGGT
TTCGCGTGGGGCGCGGTGCTGTTGCAATATTGAACCGATGCCGTCTGAAACAGGCTTTC
AGACGGCATTTCCTATCATGAAGCGGCGAGGCTTCTTCAAACTGATGGCGTGTGCGGC
ATTTCTGTCTGCCGTTTCGCTGCGCCTCCCGTATTGGGCGCGTGTACGCAATATTGTC
CCTCTATGCGTTTTGCACTTTACGGCATCGACAAACGGTGCGCCATACGGGGGCAACGCG
CATTCGGAACACCGCCTGCTGCTGCCTGCATTGCTCGGCGGCTGGGTGGGCGCGTATTT
CGCAGCATGACATTCAAACATAAGACAGCGAAAAAGCGTTTTGTTGTGCTGTTCCGCT
GACTGTTTCAGGTAATGTCTTGGCAGCCCTCATCTGATTTATAGTGGATTAAATTTAAA
CCAGTACGGCGTTGCCCTCGCCTTGCCGTACTATTTGTACTGTCTGCGGCTTCGTCGCTT
GTCCTGATTTTTGTTAATCCACTATATTATTTTGTCCCGCTGAATTTTTCGTAAACTC

Appendix A

-449-

GGGCAGAAATACCTGATTATCCAACCAACAAAGGAATACTATGTCTTTTGCCTTCTTTTT
TCCCGGACAAGGTTCCTCAAGCCTCGGTATGATGAACGGCTTTGCCGAACACGCCATCGT
CAAAAACACCTTTGCCGAAGCCTCCGCCATATTGGGGCAGGACTTGTGGCGGATGATAAA
CGGCAGCGATGCCGAAATCATCGGTCAAACCGTCAACACCCAGCCCATTTATGCTCGCCGC
CGCGCTTGCCGTTTACCGCGCCTATTTAGAACGGGCGGGCAAAACGCTGCCGCCGTGTC
CGGACACAGCCTCGGCGAATACACCGCACTCGTTGCCGCCGGCGCATTGAATTTGCCGA
CGCGGTCAAACCTCGTCCGCTCGCGCCGAAGTATGATGACAGTCCGCCGTACCGCAAGCGT
GGGCGCAATGGCGGCGATTCTCGGCTTGAAGATGAGCAGGTTAAAGCCATTGTGCCGA
AGCCGCCCAAAGCGAAGTGGTCAAGCCGTCAACTTCAACTCACCCGGACAAATCGTGAT
TGCAGGCAACGCCGCCGCGCTCGGACGCGCCATGGCTGCCGCCAAAGAACGCCGTGCCAA
ACGCGCCCTGCCGCTGCCGCTGTCCGTACCTTCCCATTGCAGCCTGATGAAACCCGCCGC
CGACAAACTTGCCGAAGCCCTGAAAACCGTTGAAATCAAGCAGCCGCAATCCGCGTTAT
CCACAACGCCGACGTTGCCGCTACGATGATGCCGACAAATCAAGACGCGCTCGTCCG
CCAGCTTTACAGCCCCGTACGCTGGACGGAAACCGTCAACGCCCTCGTTTCAGACGGCAT
TGCCGAATCCGCCGAATGCCGCCCGGGCAAGTGTGGCGGGCTTGCCAAAACGCATCAA
CAAAGCCGCCGCGTGCAGCGCACTGACCGATGCCGGACAGGTTGCCGCCCTTTATCGAAGC
GCACTGACTTCTGTTCTGCAAAAAGCAGCCTGCCCTCTTCAGGCTGCTTTTCATGTCCGAA
CGACGGCAGCCCCATATTTACGCTATAATCCATCCCGACCAAAACCCAGCAGCGGCTGC
CGTTGCGAGTTCCCGCCCTACCGATATGATAGAAAACCTGACTTTCGGACTGTTTAAAAAA
GAAGACGCGCGCAGCTTTATGGCCTGATGGCGTACGTCGCCCTTACAAAATCCGCATC
GTTGCCGCCCTGATTGCCATTTTCGGCGTTGCCGCCACCGAAAGCTACCTTGCCGCCCTT
ATCGCCCCCTGATTAACACGGCTTTTCCGCACCTGCCGCCGCCGCCGAGCTGTCTGCC
GCCGCCGGCATCATTTCCACCTGCAAACTGGCGCGAACAGTTTACCTATATGGTTTGG
GGGACGGAACAAATCTGGACCGTCCCGCTCTTCCCTCATCATCCTCGTCGTCATCCGT
GGCATCTGCCGCTTTACAGCACCTATCTGATGACTTGGGTCTCCGTGATGACCATCAGC
AAAATCCGCAAAAGATATGTTTGCAAAATGCTGACCTTTCTCCCGCTACCATCAGGAA
ACGCCGTCCGGCAGCTGATGATGAATATGCTCAACCTGACCGAACAGTCGGTCAGCAAC
GCCAGCGACATCTTACCGTCTCAGCGCGGACACGATGATCGTTACCGGCCGTGACCATC
GTCTGTCTTACCTCAACTGGCAGCTCAGCCTCATCGTCTCGTCTGATGTTCCCGCTGCTC
TCCCTGTCTCGCGCTACTACCGGACCGTCTGAAACACGTCATTTCCGACTCGCAAAAA
AGCATAGGCACGATGAACAACGTTGATTGCCGAACCCATCAGGGACACCGCGCTCGTCAAG
CTGTTCAACGGGCGAGCGCAGGCGCAACCGGTTTCGACGCGGTCAACCGCACCATCGTC
CGCTCAGCAAAAAATCAGCGAGGCAACGGCGGCACATTTCCCGTTTACGCGAACTGATC
GCCTCGATCGCCCTCGCCCTCGCTCATCTTTCATCGCCCTGTGGCAAAAGCAAAACGGCTAC
ACCACCATCGGCGAATTTATGGCATTTCATCGTCGGATGCTGCAATGTACGCCCCCATC
AAAAGCCTTGCCAACATCAGCATCCCTATGCAGACGATGTTCTCGCCGCCGACGGTGTA
TGTGCATTTCTCGACACCCCGCCGAACAGGACAAGGGCAGCTCGCACCGCAGCGTGTG
GAAGGGCGCATCAGCTTCCGCAACGTCGATGTCGAATACCGTTTACAGCGCATCAAAGCC
CTCGACAACCTTCAACCTCAGCATCAGACAAGGCGAACGCGTCGCCCTGGTTCGACGTTCC
GGCAGCGGCAAAATCCACCGTCTCAACCTGCTGCCCGCTTTGTGCAACCGTCTGCCGGC
AACATCTGCATAGACGGTATCGACATCGCCGACATCAAACTCGACTGCTCGCGGCCCAA
TTCGCCCTCGTCTCCCAAGACGTATTCCTGTTTGACGACACCTGTTTGAAAACGTCCGA
TACAGCCGTCCCGACGCGGGCGAAGCCGAAGTCTGTTCCGCCCTCCAAACCGCCAACTG
CAAAGCTGATTGACAGTCTCCCGCTCGGACTGCACCGCCATCGGATCGAACGGCAGC
AACTTATCCGGCGGACAGCGGCAACGCGTCGCCATTGCCCGGCCATTTTGAAAGACGCG
CCGATATATTATTGGACGAAGCCACAGCGCATTAGACAACGAATCCGAACGCCCTCGTC
CAACAGCGCTCGAACGCTGATGGAAAACCGCACCGGCATCATCGTCGCCACCGCCCTG
ACCACCATCGAAGGGGCCGACCGCATCATCGTATGGACGACGGCAAAATCATCGAACAA
GGCACACACGAACAACTGATGTCCAAAACGGTTACTACACGATGTTACGCAATATCTCA
AACAAAGATGCCCGCTCCGGACGGCATAAACAATAATGCCGTCCGAAATGGTACAATCGC
CCCGACCTTTTACAGCGGCATATATCCGCGACCCATCCGATTATCTTCAATCACTGTA
AAACCCATTATGACCCAAGACAAATCCTCATCTTGACTTCGGTTCGCAAGTTACCCAG
CTCATCGCCCGCGCGTGGCGGAAGCCACGCTTTACTGCGAGCTGCATTCTTCGATATG
CCTTTGGACGAAATCAAAGCCTTCAACCCCAAAGGCATCATCTCTCCGGCGGCCCAAT
TCCGTTTACGAATCCCGATATCAAGCCGATACCGGTATTTTGTATTGGGCATTCCGGTT
TTGGGCATCTGTTACGGCATGCAAGTTATGGCGCACCACTTGGGCGGCGAAGTGCAGCCC
GGCAACACAGCGCAATTCGGTTATGCGCAAGTTAAACCATAGACAGCGAGCTGACACGC
GGCATTCAAGATGGTGAGCCAAACACACTCGACGTATGGATGAGCCACGGCGACAAAGTG
TCCAAATGCCCCGAGGTTTTCGCCGTATCGGCAACACCCCGTCTGCCCGATTGCCATG
ATGGAAAACGCCGAAACAAATCTACGGCATCCAGTTCCACCCCGAAGTTACCCACACC
AAACAAGGCCGCCCTTGTGAACCGCTTTGTCTTGATATTGGCGCGCAACACCGGGC
TGGACGATGCCGAACTACATCGAAGAACCGGTTGCCAAAATCCGCGAACAGGTCGGCAGC
GACGAAGTGATTTTAGGTCTGTCCGGCGCGTGGACTCTTCCGTAGCCGCCGCGCTGATT
CACCGCGCCATCGGCGACCAACTGACCTGCGTGTTCGTGATCAGCGTTTGTGCGCCTG
AACGAAAGCAAAATGGTGATGATGATGTTTCGCCCGCAACTTGGGTGTGAAAGTGATACAC
GTCGATGCCGAAGGGCAGTTTATGGCGAACTCGCCGGCGTAACCGACCCCGAGAAAAAA
CGCAAAATCATCGGTGCGGAATTTATCGAAGTATTTGATGCCGAAGAAAAAACTTACC
AACGCCAAATGGTTGGCAAGGACGATTACCTGACGTAATCGAATCCGCGAGGTGCA
AAAACCAAAAAAGCCACGCCATCAAATCGCACCACAACGTCGGCGGCCCTGCCTGAAAAC
ATGAAGCTCAAATTGCTTGAGCCTTTGCGCGATTGTTTCAAGACGAAGTACGCGAATTG
GGTGTGGCTTTGGCGCTGCCGCGGCAATGGTGTACCGTCATCCGTTCCCGGGTCCGGGT
TTGGCGGTGCGTATTTTGGGCGAAGTGAAAAAGAAATATGCCGACCTGCTTCTGTCAGGCA
GACGATATTTTCAATCAAGAATTGCGCAATACTACCGATGAAAACGGTACATCTTGGTAC
GACCTGACCAGCCAGGCATTGCGCGTGTCTGCCCGTCAAATCTGTGCGCGTAATGGGC
GACGGCCGCACATACGATTACGTCATTGCCCTGCGTGGCGTGATTACAGCGACTTTATG

Appendix A

-450-

ACCGCGCATTGGGCGGAAGTGGCGTATTCTTGTGGGCAAAGTGTCACCGCATCATC
AACGAAGTCAAAGGCATCAACCGCGTGGTTTATGATGTGAGCGGCAAACCGCTGCCACC
ATCGAGTGGGAATAACAGCAAACATGGCTGCCCCGTCCGGCGCAGTCTTTCGATTATCG
GAAAAAGGAAAAAATATGAGCACACAAGATTTAAACGGCAAATCGCTTTGGTAACAGG
CGCATCGCGCGGTATCGGTGCAGCAATTGCCGACACGCTGGCGGCAGCCGGTGCCAAAGT
CATCGGTACGGCGACCAGTGAGAGCGGTGCGGCGCGGATTAGCGAGCGGTTGGCGCAATG
GGGCGGCGAAGGCCGCGTATTAAATTCGCGCAACCTGAAACCATCGAAAGCCTGATTGC
CGACATCGAAAAAGCGTTCCGCAAACCTCGATATTCTGGTCAACAACGCCGGCATCACCCG
CGACAACCTCCTGATGCGCATGAAAGAAGAAGAGTGGGACGACATCATGCAAGTCAACCT
CAAATCCGTGTTCCGCGCTTCTAAAGCCGTTTTCGCGCGTATGATGAAACAACGTTCCGG
CCGCATCATCAACATCACATCCGTCGTCGCGGTGATGGGCAATGCCGGTCAAACCAACTA
TGCCCGGCGCAAAGCAGGCTTAATCGGTTTCTCCAAATCCATGGCGCGCAAGTCCGCGAG
CCGGGGCATTACCGTCAACTGCGTCGCCCCCTGGCTTTATCGATACCGACATGACACGCGC
CCTGCCGGAAGAAACCCGCAACCTTTACCGCCCAAACCGCTTTGGGCAGATTCCGCGA
CGCGCAAGACATCGCCGATGCGGTTCTGTTCTCGCTTCCGACCAAGCAAATACATCAC
CGGCCAAACGCTGCACGTCAACGCGCGGTATGCTGATGCCTTAACAGACAACCTTTTTCAAC
CATGCCGTCTGAAGCCCTTTCAGACGGCATTTGCATTCTCAGGCAAAATGAACACACACC
ACACCCCGCCCTGCCCATGCGCGCTCAGGCACAAGCTGAGACCTTTGCAAAATTCCTTTCC
CTCCCGCAGCGCAAACCCCAACACAGGTTTTCAGCTGTTTTCAGCTGTTTTCGCCCCAA
ATACCGCCTAATTCTACCCAAATACCCCTTAATCCTCCCCGGACACCTGATAATCAGGC
ATCCGGGTACCTTTTATAGCGGCGCAGCGGGCGCACTTAGCCTGTTGGCGGCTTTCAAAGG
TTCAAACACATCGCCTTCAGATGGCTTTGCGCACTCACTTTAATCAGTCCGAAATAGGCT
GCCCGGGCGTAGCGGAATTTATGGTGCAGCGTACCGAAGCTCTGTTTCGACACATATAGT
GGATTAAACAAAGACAGTACGGGTTGCTCGCCTTAGCTCAAAGAGAACGATTCTCTAA
GGTGCTGAAGCACCGAGTGAATCGGTTCCGTAATTTGTACTGTCTTCGGCTTCGTCGC
CTTGTCCTGATTTTTGTTAATCCACTATACATCATCGCTACTACCGTTCCGGCGCAACAG
GCATTCCTCGATGCCGCGAAGTATGCAATGGAGTATAGAAACGAAGGGCTGGGCTTG
AACGTATCTCCGCAACAGTACTCGGCAAGACACCGCCCAAGTCAATTTGAAGCCTAC
TTCCGAGACGGACAACACCGATCCGCGCATCAGCAACTGTCCGGCTTCGTCAACATCGGC
GGACAATGGTATTTTATCGATCCCAACGTTCCGCATCCTGCGATGAAACAACCCCTGCATT
TGCGGATCAGGCAAAATTTCAAAGCCTGCTGCGGCAAAATCTGAAACCTGTGCGATAA
AAATGCCGTCTGAACGTTTCAGACGGCATTTTCAACGTGCAAAAAAACCATTCATACCAA
GGGTAAATATGAATGGTCAATACATTGCGGGAACCGTCTTACTTGTGCACTGCCGAAA
AGGGAGAAACCGCAGCGGTAATCAGCGGAAAGGATTGTACCCGAATTAATATTAAGAAC
GTTAATCGCGAAAAATATTTAACAACCTGTTGAAACCTATTGGTTTCCCGTATCCACC
CGACCCAGCGTTCAAACAGCTTCGGTTCGAGCGCGCAACGACCGAGCGTTGAACACGT
GTTACCACTCCAAACCGCTCGCCTTCCAAAGTCTGAGCTGCGCGCCGCTCCTCGA
AAATCAACGCGCGCGCGCATATAATCCACAGCTTCTGCGCGCGTGAACATAAACATCAT
AACGCGCGCACGCCAGATAACACCAATCCAACGTACTGCTGCCATACTCCGTATCGTTC
CAAAAGCGCGAGCGTACTCATACGGCTGGAAGATTGCGCGAAGCAGATATTTGATTT
CCACGCGCGCAATCGCCTATTGAGTTTTTATCCAGAGCGCAGGGGAGACGCGTCC
CGTTTAAAAACGCCCCCTGCGCGGTTGCGCATAAAAACATTGCGCGTACTGGGTTGT
AGATTAGCGCCAACTCGCGCGCGCGTTGCGGACAAACGCCACCGATACCGCAAAATGCG
GCAGCCCGTTGACAAAATTTGTCGTCCGCTCATCGGATCGACAATCCACAGCCCCCTTT
CCCCGAATATTTGTTCCGCAAAAGCGCACTGTTCTGCGCGCATTTCTCACCCAACA
TCGGACTGTGATTAAGCGGCAACGCGCGCGCAAAAGCGCTCTGCGCGCAATGTCCG
CCTCGCTCAACATCGAACGCTTCTCTGCGGTGAGACGCGGTATTCAAAAACGCGGCA
TAATTTCCGTTTTCGCGCATATGGCGCACGACTTTCTGCAACCGGTGAACACTTCTACT
GTCTTCATATTTTGAACTTGCGGCGCGCAACGTATAATGTCCGCTTCCATCACGCGCT
GCGACGATTAATACCGTCCGAACCGCAAAACATGCCCCGATTCCACCTGCCCGAAA
ACCTTTCCGTGCGCAAAACCGTCGCCCTGCCGACAACATCGTCCGCCACCTCAACGTCC
TGCGCGTCCGCCCCAACGAAAAACATCACCTCTTTCAGCGGCAAGGCAAGGACACGCG
CAGCGCTGACCGTTTTGGA AAAACGCCGCGCGGAAGCCGAAATCCTGCACGAAGACAAA
CCGACAACGAGTCCCCGCTCAACATCACACTGATACAATCCATCTCCTCCGGCGATCGCA
TGGATTTTACCCTGCAAAAAAGCGTCAACTCGGCGTAACCGCCATACAGCCCGTCATCA
GCGAACGCTGCATCGTCCGCTCGATGGGGAACGCGCGCCCAAACGCTCGCACGCTGGC
AGGAAATCGTCATCTCCGCGTGCGAACAAAGCGGCAAGAACACCGTTCCCCCGTACTGC
CCATCATCGGCTACCGTGAAGCACTCGACAAAATGCCGTCTGAAAGCACCAAGTGATTA
TGAGCATCAACCGCGCCCCGCAAACTCGGCGACATACGCCAACCGTCCGGCGCAATCGTCT
TTATGGTCCGGCCGAAGCGCGTGGACAGAACAGGAAGAACACAGGCATTGAAGCTG
GCTTTCAGGCGGTTACACTCGGCAACCGGATTTTACGCACAGAAACCGCCCCACTCGCG
CCCTCGCGCGCATGACAGCGCTTTGGGGCGATTTCGCATAAACAGAAATGCCGTGAAA
CCCGTTTCAGACGGCATTTTGCAGCGGATTAAGATAGTAGGTTCAAATAAGATTTCGGTG
TCGTCAATCCCGCGAAAGCGGGAATCTAGAAACGAAAACTACAGAGATTTATCCGAAAC
AACAAACCTCTCCGCGTATTCCCGCAAAAGCGGGAATCTAGAAACGAAAACTACAG
GATTTATCCGAAACAAACAAACCTCTCCGCGCTATTCCCGCGCAGCGGGAATCTAGAA
ACGAAAAACTACAGGGATTTATCCGAAACAAACCCCTCTCCGCCGTATCCCGCGCA
GGCGGGAATCTAGAAATTTAAGTTGCGGTGATTTATCGGAAATGACTGAAACTCAACGG
ACTGGATTTCCCGCTGCGCGGGAATGACGAGATTTAGGTTTCTGTTTTGTTTTGTTCTGT
TCTCGCGGAATAACGGAATTTAAGTTTATAGGAATTTGTGCGAAAAACAGAAATCCCC
CGCGCTCATCCCGCAAAAGCGGGAATCTAGAAACGAAAACTACAGGATTTATCCGAA
ACAACAACCTCTCCGCGTATTCCCGCAAAAGCGGGAATCTAGAAATTTAAGTTG
GGTGATTTATCGGAAATGACTGAAACTCAACGGACTGGATTCCCGCTGCGCGGGAATGA
CGAATTTTAGGTTTCTGTTTTGTTTTGTTTCTGTTCTCGCGGGAATAACGGAATTTAAGTT
TTAGGAATTTATCGGAAAAACAGAAATCCCCCGCGCTATTCCCGCAAGCGGGAATC

Appendix A

-451-

TAGAAATTTAACGTTGCGGTGATTTATCGGAAATGACTGAAACTCAACGGACTGGATTCC
CGCCTGCGCGGGGATGACGAATTTTAGGTTGCTGTTTTTGGTTTTCTGTTTTTGGCGGA
ATGACGAATTTTAGGTTTCTGTTTTTGGTTTTCTGTTCTCGCGGGAATAACGAATTTTA
AGTTTTAGGAATTTGTGCGGAAAAACAGAAATCCCCCACCCTCATTTCCCGCAAAGCGGG
AATCTAGAAATTTAACGTTGCGGTGATTTATCGGAAATGACTGAAACTCAACGGACTGGA
TTCCCGCTGCGCGGGAATGACGAAGTGAAGTTACCCGAACTTAAACAAAGCGAAACC
GAACGGACTAGATTTCCCGCTGCGCGGGAATGACAGTGTATCCATTTCTAATTTTAATCC
GCTATATTTTACACAACTATTTGAACGATATGACCGCGCTGCCGTAAGCTTTCTCAAGC
TCCGCTGCTTTGACGCTCCATTCTTTCTTTTCCCTACCGAATTTACCCAAAGCA
CGCTTCAAGTCAACATCACCTTCAACGAACGGCGGTGTCTTCTTTCTGTTCCCTATCT
TTTTCCAAATCGCTACCCAACTACTGTTTTTACTGAGGAACCTGGCATAATGCAATTCT
TGGGTACATAAGCGGGGATTAACCTGATAAACAGGCATCCCTCCTTATCAAAGAAATAA
GTAAACATCATCAATCTACCGCTTAAATCCACTCTGCGGCAAAACGGCAACCTTTCC
AAGAAAAACCGCATCGCCTCACGCGAAATGATATAGCCAGCGCTCCCCCAATGTTTCGCTC
TCCAGCAAAGGAATGACCGATTCTCATAATTCAGGACTTTATCCGGTCTGACAATAACT
TTCGCAACATCGTTTCCAAACGAACGATAAAGGCAGAATCCTTATCAAACGCTCTTCC
AACCAAGTATCTTCGGCAAGGAACCTTTCTGCGTCTTTGCCAAGCAGGACATCATCCTCA
AATACGGCAACATAGGGCAGACCTTCATCCAATGCCTGTTTCCACAATACGGCGTGGCTC
ATAAAGCAGGCTTTTCCACTTCGCTCAACAGGTGCTGTTTGGCAATCCCGGCACCAAT
TCCGCCATCATCGCTCTGCTGCTTTCAGACGGCATCAGTGCCTGAAAACTGAAACGGG
ATGCGCGCACGCGGAAGGTTGCGCAATGTGCGCCTGCGTTCTGCGCGGGAAGCTAAG
CTGATAACATGGTTTTGCAATAATTATCCTGTTTTTGTCTGTTGGATAAAGCGGCGTTT
TTCAACGGTTTTTTCAGAACTCGGCGCAAAATGCCGAAGTATTGCCTCAAGGTAAACAGCC
GCGCATCTCGCCTGCTGCTGCTGCAAAATACGATGTCATCTCTCCTCTTTTATTGGAAGG
CACAATGAAGTGTTCGCGCTTTTCCGCGCTTTTCCCTTTCCCTGCTGATTTGGTCAA
GGCGCGGATCAGCGGCTGTTTGAATGTGTTGGCGGGGAATCGCGCTTTGCTGTTTGGC
GTTTCAAGGAGGCGTCTGCTTTCGATCAGGCTGCCAATGCGCTGTTTGGTCTGAAACTT
GGCATAATGCAGCTCTTGGGCGCACAGGCGGGATTGAGCTGGCAAACCGGCATTCCTTC
CCTGTGCAAAAAATCGCTGAACATCATCAGATCGACGGGTGACGCTTCGGCGCGCAG
GGCGGCAACCTGTCCAGGAAAAACCGCATCGCTTTTCCGGAAATGATATAGCCCGCGT
CCCCAGTGTTCCTTTTCCACAGCGGAAAGGCGCGCCCGCAGTAATCCGCCACGCCGGA
GGCGAGGTGAGACGTGCATAAATCATCGTTTCCAGCGGACGATAAAGCGGTATCCGG
GTCAAAGCGTTCTTGCAGCAAGCGTCTTCGGCAAGGAATTTTCCGCACCTTCGCCGAG
TAAACGCTGCTCCTCAAAATACGGTGATATACGGCAGACCTTCGTCCAATGCTGCTTCCA
CAATACGGCGTGGCTCATAAAGCAGGCTTTTCCACTCCGCTCAATAGGGGTGCGCCGA
CAAGCCGGGACGAGTTCGCCCATTCGCTGTTCCAGCCTTTCAGACGGCATCAGTGCCTC
GAAAACTGAAACGGGATGCCGTGCCGAGGTATCGGCAATGTGCGCCTGCGTTC
TGCAGCGGAAGCTTAAGCTGATAACGTTGTTTGCATAATTATCCTGTTTTTGTCTGTT
GGATAAAGCGGCTTTTCAACGCTTTTTCAGCAATCGGTGCAAAATGCCGAAGTATGTC
CTCAAGGTAAACAGCGCGCGCATCTGCGGTCTGCCGCAAAATCCAGCCACGCGCGCGG
GGCAGCGTGTCCGCTCCGTTTGAAGCATTGGTACAAAAACCGCGCGGCGCTTCAAAATCT
TCTTCCGGCAATGTTTCTCCAGCAATTCATACGCTACTGCTTTTATTGGCGGTATTCA
AGGCTGTGCAACCGGTTTTTAAACCCATAGACTGCAAAAAATCGTTTCTGGCGGTTTTT
TGGATGCTTTCGCGGTTTTCGTTTGGCGGATGCTGTATTGGATGAAACCTGATTGGCG
TGAAGGCGGTATTGACCAAGGCTTCGGGATAATAAGCCAGCCTGCCCAATTGCTGACA
TCGTACCAAAATTTGGTAATCTTCCGCCAATCCCGCTCGGTGTTGTAACGCAACCGCCG
TCAATGACGCTGCGCCTCATAATCATCGTGTGTTGTGTATGGGTTGCCGAAAGGAAA
AAGTCGCAATGCTTTCGTTTCGTTTCGGGTTCGTTTTTCCAAATTTTGGCGGTGCTGCTG
CGCGCCAGCGGTTGCGCTCTTTTCTTCCGACAAAACCTCCAGCCACGCACCCATCGCG
ATGATGCTGCGGTCTTTTCCATCTACCCACGATTTTCTCAATCCAGTGGGGGCGGCA
ATATGCTGTCAGCTCGGTGCGCGCAATATATCCCCCCCCCCCCGACTTTGCCAATTCA
TCCAGCCCGATGTTTAAAGAGGGAATCAGACCGGAATTGCGCGGCTGCGCGAGGATGCGG
ATGCGGCGCTCCTGTTCTTGGAAACGCTGGGCAATGGCAAGCGTACCGTCCGTGAGCCG
TCATCGACAATCAAATATCCAAGTTGCGCAAGTTTGAATCAGACGGCGGCTAATGAT
TGGCGCAATATTTTTCTACGTTGTAGGCGCAATCAATACGCTGACTAAAGGCTGCAAT
TTATTCTCCCGATAGGCACGATGCCGTCTGAAGGCTTCAGACGGCATTGGACTGTACAA
CGGTTACTCGCCCAAAAGCGCGATATCCGCTACCGGCTTCATTGTTCTGCCAAGCGGTT
CAGCAGGTTACGGCGGTTTTGTTTTACGGCGGCATCTTCGCCATCACCATCAGCCGTC
GAAGAAGGCATCGACTTGGCGTTTACGGAAGCCAGTTCGGACAAGGCGGTCTGGAATT
GCCTTCCGCAACGGCGCGGCAATTTTCGCTGCAAGCCTTGTGCGCGGCAAGAGGGC
TTTTCTTCTGCTCTGTTGAGCAAGCTTTGTTAACCGCGCCAACTCGGCATCGGCTTT
TTTACGAGGTTTTGACGCGTTTTGTTGGCAGCGCGAGCGCGGCGCTTCGGCAGTTG
TTTGAACGCGGCGACAGCTGCAAGTTTGGCGGTCAAATCGTCCAAACGGCGCGGCTGCTT
GGCAAGTACGGCGGCAACGATGCTTTCGGGATAATCGTTTTGACGAATACGGCAAGGCG
CGCTGCTGATGAATCGGTGCGCGCAATTTTTCAGACGGCGTTTTTTCGTTGAGCAAACTTTCGGGAA
GCTGTTGAAGGCGCTGTAATCAGTTCGTTTACGTCCAAACCGTACTGCATCAGCATACG
CAAAATACCAATGCGGCGCGGCGCAGGGCGTATGGGTCTTTGTCGCCGCTCGGAATCAG
GCCGATACCCCAATGCCGACCAAGGTTTTCCAGTTTGTGCGCAAGCGCAACGGCGCGGCG
AATTTTGCCTCAGGCAGGTTGTGCGCGGCAAAACGCGGTTGGTAGTGTGCTCGACGGC
TTCGGTAATTTCTCGGTTTCGCCGTCCAAGCGGCGTAGTATTTGCCCATCGTGCCTTG
CAGTTCGGGGAACCTCGCCGACCATTTTCGTTACTAAGTCGGCTTTTGCCAAACGCGCGG
CGCTTCGGCTGCGCGGCGATCCGCGCCAAAGCCTTGGCGATATGGGCGGCGATGCTTTC
CAGGCGTTGATGCGTTTCGGCTTTCGCAACCGATTTTGTGTTGATAAACCAGTTTCGTGAG
TTTGGGCGAGGCGCTTTCCAAAGTCGCTTTTGGTCTGTTTGTAGAAGAACTCGGCATC
AGACAGGCGCGCGCGCAAGACACGTTTTCATGCTTGGATGATGTGTGACGGATCTTCGGT

Appendix A

-452-

TTGCAGATTGGACACCAGCAGGAAGCGGTTTCATCAGCTTGCCGTTTTGGTCGAGCAGCGG
GAAGTATTTTTGGTTTTGCTGTCATCGTCAGAATCAGGCATTCTTGCCGTACGGCGAGGAA
GTGTTCTTCAAAACCGGCTTCCAATACCACAGGCCATTTCGACCAGCGCGGTTACTTCGTC
CAACAAGGCTTCATCGCGCGCGCGGTCGCGTTTCAGACGGCGTGCCCTGCCCTTCCAATAC
CGTCTGAATCGCGGCTTTGCGCTCGGCAACGAAGCGACGACTTTGCCCTTGCTCGCGCAT
TTGTGCGGCGTAGCTGTCGGCGTTTTCAATGGTAATTTGCGCGTCGGAGAGGAAGCGGTG
TCCCAAGGTTTTGTGCGGCTTTGCAGACCCAAACGCTGACGTTTACAATGTGCGCGCC
GTGCAGTACAAC TAGCCCGTGAACGGGGCGCACAAAGGTAACGTGCTGCTGCCCCAACG
CATTACTTTGGGAATCGGCAGCTTCTTAACCGCTTGATTGATAATGTCTTCCAAAAGTCC
GCCCAACGGTTTTGCGGATTGGACGTATTTCGTAGGCGTACACGTCCTGCTTGCCGTCGTG
GACGATGGTCAAGTCTTCGATTTTCGCGCCCGCACCGCGTCGGAACCTTCCAAAGCCTT
GGTTGGCGCACCGTCTTTTCATGGCATTTCGTCAGGCGAGGCGCTTTTTCACAATTTTTTG
ATCAGCCTGAACGGCTTTGACGTTTTTGACTTGAACCGCCAAACGGCGCGGCGAGGCATA
AGCCGTAATTCGGCTGCGCCGTCAACGAGTTGCGCTTTTTTCCAAGCCTTCGGCAACGGA
AGCGGCGAAATGGTTGCCAGATTATTCAGGGCTTTGGGCGGGAGTTCTTCGGTAAGGAG
TTCGATTAAAAGGTTTGGGTCATCATTCGGCTTCTTTGAATTTGGTTAATCTGCCGTGT
TTATAGTTTTTCGCTGTAATTTTCCAGCCGTATCCCCATAAAAACCGTCAACGAGCGGG
GTGGCGTACAAAGTGGCAACATCTTCGCGGTCTGCGAGCCAAGAGATAATGGCTTTTTTC
TCGGTTTTCTCCCAGCTTCGGGCGACCGGATTTTTGAAACAGGCGACGAAAAATCGCGCGCA
TCGCCCCCGCGCTTCAAAAGCTTTGCGCAAGATACGCAATCAGTCGTCCTATAAA
GCGGTCGAACGCTTCGGCATCGTCTCAGCTTGGTGCAACTGCCCTGAACGCCGAAAAAT
CAATGTTTTGAACTCGCCCAAATGCAGCTTTTTATGCTGGCGGCGGTTCAATTTGTGCAG
GCGTTTTCTGCTTGGGTCGCGAAATAGACAGGCATGATTTCTAAAAATATAATGGC
TTCCGGACGGCTGCTTATCGTGGCGCGCGAAGCTAAAAAATCGTCGCCCCCTTAGGCGG
CGTTTTGCCTTCATTAAAGGAAGCCAGTTTTTCGCGGCTTCAACATATTTTTGCGCCA
CGGCGCGGCTCAATGACGCAATACGTCCTAATATAAGTTGCCCGCTCAGTTACGGAAATCG
CGCCGCTGCGCTTAAAGGTTGAACGTATGCCCGCTTTGAGGACAAGCTCGTAGGCAG
GCAGGGCGAGGGCGGCGTTTTCTTCGGCAAGCAGGCGTTTTGGCTTGCCTTCGTAGTCGT
TGAACCTGGCGCAGCAGCCAGTCGCGCATCGCTGTATTCGAAGTTGTAGGTGGATTGCTCGA
CTTCGTTTTGGTGGTACAGTCGCGGTAGGTGACGGTGTTCGCGTCGAGCGTTTTTGCCC
AAACGAGGTGCTAGACGTTTTCTACACCTTGCAAGTACATCGCCAAGCGTTCGATGCCGT
AGGTGATTTTCGCGGAGTAGGGCGTGCACTGATGCCCGCGACTTGTGGAATAGGTAA
ACTGGGTTACTTCCATGCCGTTGAGCCAGACTTCCAGCCCAAACCCACGCGCGGAGGG
TGGGTTTTTCCCGATCGCTTTCGACAAAGCGGATGTCGTGGACTTTGGGATCGATGCCCA
ATTTCGCGCAGAGAGTCGAGATAGAGGTCTTGGATATTGGCGGGAGCGGCTTGAGGGCGA
CTTGGAAATTGGTAATAGTGTTCAGGCGGTTGGGTTGTGCGCGTAGCGGCGCTCTTGG
GGCGCGGCTGAGTGGACGTAGGCGGCAACCAAGGCTCGGGGCGAGTGCAGCGCAGGC
AGGTGGCGGATGGGATGTGCCGCGACCGACTTCCATGTGCAAGGGTTGGATGACGGTGC
AGCCTTTGTCTGCCAGAAATGTTTGCAGTTTGAAGATGATTTGTTGGAAGGTAAAGCATGG
CTTATGATTCGATAAAATAAAGGGTTATTTTACTGTTTCCATTGCTGTTTGGATAGGTT
TATCTCAAAGACAGAGTATGTTTGAACACCGGCATACATGATATAGTGGATTAAATTTAA
ACCAGTACAGCGTTGCCTCGCCTTAGCTCAAAGAGAACGATCTCTAAGGTGCTCAAGCA
CCAAGTGAATCGGTTCCGTTACTATTTGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATT
TTGTTAATCCGCTATATGTTTTCGTTAGGCGGCGAGGCTGCCCTATTGAATACCTTAAAG
CAGGCTATGCCTGCCAACGCCATATCCAACACAGTCTTTAATTTAAATCCGGAATAA
AAAGCAGCAGCAACCGGTCGTGCTTTTCCAACCAACAAAGTTTATTTCTGTGCGAACG
GATATAGTCCAAAGTTTTGAGCTGTGCAATCGCAGCAGCCAATACTTTATGCGCTTCCGC
CAAAGCCTTATGCTCTTATGCTTTGGGAAATGCCCGCTTCTGCGGCTTTTTTCGCTCTTC
CGCACGTGCCGATCCATCTCCGCACTGCGGACGGCAACATCCGCCAAGACAGTTACTTT
ATCAGGCTGTACTTCCAAAACACCGCGGAAACAGCAACCAAAACCTCTTTATCTCTGCC
CGGAACGGTCAAAAGCAAAAGCCCCGCGCCGACCAAACTCATAATCGGCTCGTGTGCGGG
ATAAATACCGAGTTCGCCCTGTACAGTCGGAACACGATAAATGTTGCCTCGCCTGAATA
GATTTTCTGCTCGCTACTTACCACCTCAACTGTCATGATGCTCATGCCGACCTCCTTAGT
TTAAGGTTTTTCGCTTCTCTATGCTTCTTCAATGCTGCCGACCATATAGAATGCCGTGCT
CGGCGAGATGATCGTATTTCGCGGTTCAAGATGGCTTTGAAGCCGGCAATGGTATCGCGCA
GGGCGACATATTTACCGGAGAACCTGTAAACACTTCGGCAACGTGGAACGGTTGGGACA
GGAAGCGTTGGATTTTACGCGCACGCATTACGGTCAGTTTGTCTTCATCAGACAATTTCGT
CCATAACCAAGATGGCGATGATGTCGCGCAATTCTTTGTATTTTTGCAGGGTGGACTGCA
CACCGCGCGCCACGTCGTAGTGCTTTGACCAATACCATCGGATCCAGTTGGCGCGAAG
TAGAATCAAGCGGATCGACTGCCGGTAAATACCCAAAGAGGCAATATCGCGGCTCAATA
CGACGGTTGCGTCAAGTGGGCGAACGTTGTTGCCGGAGACGGGTCGGTCAAGTCGTCCG
CAGGTACATATACGGCTTGGATGGAAGTAATAGAACCGGTTTTGGGTAGAGGTAATACGCT
CCTGCAACGACCCATTTCTCTGCCAATGTCGGTTGGTAGCCCACTGCAGACGGCATAC
GACCAACAATCGCGGATCTTCGGTACCAGCCAGGGTGTACGGTAGATGTTGTCCACGA
AGAACAATACGTCGCGGCTTTTTCGCTTTTTCGTCACGGAAGTATTCGCGCA
TGGTCAAAACCGGTCATGCGACGCGCAACCGGTTGCCCGGAGGTTTCGTTTCATCTGACCGT
AAACCATTGCCACTTTATCCAATACGTTGGAATCTTTTCATCTCGTGGTAGAAGTCGTTAC
CTTCGCGGTTACGCTACCGCTCACCGCCTGCGAACACGGAACAAGCCGCTGTGCGCTTTGGCGA
TGTTGTTGATCAATTCATCATGTTACCGGTTTTACCCACACCGGCACCGCGGAACAGAC
CTACTTTACCGCTTTGGGCAACGGACACAGCAAGTCAATCACTTTAATGCCCGTTTTGCA
GCAATTCGGTTGTGGAAGACAGTTTCGTCAAACTTAGGGGCGAGTTGGTGGATGGCAGGC
TCTTGTGCGTATCGATCGGACCTGCTTCGTCAACAGGCGTCCCAATACATCGACAATGC
GTCCCAACGTACCTTTACCTACCGGCACAGTAATGGGCGCACCGGATTGCTCACAGTCA
TGCCGCGTTTTCAAACCGTCCGAGCTGCCCATCGCAATGGCACGGACTACGCCGTCGCCCA
AAAGCTGTTGGACTTCCAAGTCAGACCGTTTTTCGTCTAATTTCAAAGCGTCGTAAACGC

Appendix A

-453-

GCGGAATCATGTCGCGTGGAAATTCACGTCAACAACCGCACCGATAATTTGTACGATTT
TGCCTTGGCTCATTATCGTATCCTAATTTCCGTACAGGATTCAGACGGCATCAGACAGCC
GCCGCACCTGCTACAATTTCTGACAATTCGTGGTAATCGCAGCTTGACGGATTTGTTA
TATACCAAACGCCAATCTTTGATGGCATTGCCTGCATTGTCTGTTGCAGCTTTCATGGCA
ACCATGCGGGCTGCTGTTTCGGATGCCATATTGTGCTCAACGCCCTGATAAACCACAGAC
TCTAAATAGCGGCGAACAGATATTCCAACACTGCAAGTGCAGTCGGTTTCGTAGCGGTAT
TCCAGCTGAACGGTGATTGGGAGCTGAATCGCCAATCAGTTTCTCACCAGTAGGCAGC
AATACTTCCATTCTCGGTCTTGACGCATGGTATTGACAAAACCCGAATACACCAGATGG
ATTCTGTCAATTTTCATGTTTCTCATACCGTTGGAAGAGTTCTGTCAAAGGTCGGAGCAGC
ATTTCCATTTTTGGGGTATCGCCCAAATTTACGGCACTGGCAACCACATTTCAGACCAATG
CTCTGACACGCCATCAGACCTTTACTGCCAAAGCATAACGATTTCTCTTCAATACCTTGA
TTCCGATACTCTTGAATTTGTGCCAAAACCTTTTTCAGCACGTTGGCGTTCAAACCGCCA
CACAAACCCCTTATCAGACGTAATCAAATAAAACCGACAGCTCTGATTTCCCGATGAGAT
TCCAGTAACGGAATACCATGATCGGTATTGGTTTGGCGAAGATGGCTCATACCATACGC
ACTTTTTTCGGCATACGGACGCGCCAAACGCATCCGTTTCTGAGTCTTCCGCATTTTAGAG
GTTGACACCATCTGCATCGCTTTAGTGATCTTTTGGGTATTCTGAACACTGCGGATTTTG
GTGAGAACTCTCTTTTCTCTACTGCTTTCAGACTCTTTCACTTCAAGCCTTATGCCTGA
TAGGCGTAAGAAGATTGAAGGATTTTCATGGCTGCTTCAAGCGTTTTCTCGCTCTCGTCG
GACATTCACCTGAAGCATTGACGGCTTCCAAAACCTTCCGGATGTTGGGTACGGACAAAG
CTCAAAAATTCAGATTCAAAGCCAGAGCTTTGGCAACCGGAACATCAGAATACGAACCG
TTGTTGATTGCCAAAGGGTCAAAGCCATTTAGCCGTATTCAACGTACTGAATGTTTC
TGTTTTCATCAGTTCGGTTACGACTTCGCCATGCTCCAATTTGTTGCGCGTAGCTTCATCC
AAATCCGATGCAAAATGCGGAGAACGCGCCAATTCAGATATTGTGCCAACGCCAAACGG
ATACCGCACCCGCTTTTAACTCACTTTGGTTTGTGCAGCACCGCTACGCGGGATACG
GAAATACCGGCATTGATTGCAGGACGGATACCGCGTTGAAGAGGTCGGTTTCCAAGAAA
ATCTGACCGTTCGGTAATCGAAATGACGTTAGTCGGAACGAAAGCAGATACGTCGCCCGCT
TGGGTTTCGATAATCGCAACGCGGTACAGAACCGGTTTGGCTTTTACTTCGCCGTTG
GTCAATTTCTCCACTTCTGTTTTCATTGACACGTGCGCACGTTCCAACAGACGGGAGTGC
AGGTAGAACACATCGCCGGGATAGGCTTCCGCGCGGGCGGACGGCGCAAAAGCAGGGAA
ATTTGACGGTAAGCCACAGCCTGTTTGGCAAAATCGTCATAAACAATCAAGGCATCTTCG
CCAGCATCGCGGAAGAAATTCACCCATCGTACAACCGGAGTAAGGTGCGATATATTGCAAT
GCCGCCGCTTCAGATGCAATTGCAGAACACGATGGTATGCTCCATCGCGCCATGCTCT
TCCAATTTGCGGACACGTTGGCAATAGAAGATGCTTTTGACCGATAGCGACATAGATA
CAGATAACACCCCTACCTTTTGGTTGACGATGGCATCCAATGCTACGGCGCTTTTACCT
GTCTGACGGTCGCCAATAATCACTCACGCTGACCGCGACCGACAGGAACCATAGAGTCA
ATCGCCTTCAGACCGGTTTGCATCGGCTGGTCAACCGATTGCGCGCAATCAGCCCGGT
GCGATTTTTTCGATAGGGGCGGTCAAAGTTGATTAATCGGGCCTTTGCGGTCGATAGGC
CGACCAATGCAATCAACGACGCGTCCGACAGTTGCGGTCGCGCGCACCTTCCAAGATA
CGACCGGTACAGGTAACCGTGTGCGCTTCTTAAATGTGTTGCTACTCGCCCAACACTACG
GCGCGGACGGAGTCGCGCTCCAGGTTTCATCGCCAAGCCGAAAGTGTACCCGGGAATTCG
AGCATCTCACCTTGCATTTGCATCTGACAAACCATGGATGCGAACGATACCGTCAGTTACC
GAAATTACCGTACCACAGGTACGCACTTCGGCATTTACAGACAGATTTTCGATCTTGGCT
TTAATCAAAATCGTAATTTTCAGCAGGATTAAGCTGCATGAAAACCTCTCCTAATTCGTCAT
AGTCGTGTACAAGGCACTCAATTTGCCTTGTACAGACAAATCCAAAACCTGATACCCAC
TTCAACTTTTATCGGCAATCAGCTCCGGTTGATTTTCGACAGAGATTTTCAGCTCGCT
GTCGAAACGCTTATTCAGATTTGCACCAACTCGCGACCTGTTTGTGCGTCAACGGATA
GGCACTGTAAATGACGGCAGATTTGATATGGTTGAATGATAAGGTCAAGTCTTGATATTG
AGCATATACTTCCGGCAATTCAGACAAACGTTTCTGCCCGGCCAAGACGATAACAAAGTT
TTTCAACTCCTTGTCTTTCAAACCGACCAAAATCGATGAGGATATCTGCTTTTTCTGAAGC
ATTCGTTTCAGGACGGTCAATCAATGAAGCCACCTTCCCTTCTGAAACACCGCCGCAAG
TTTTTTCAGTCCGCCAACCAAGACTCAATTTGGTTTTTTTCTGAGCCAGACCGAACAA
TGCTTTTGACATAAGGTCTGGCAATCGTTGCGAACTCTGCCATAAGATTACAGCTCCTGTT
TCAGGGTATCGAGCAGTTTTCGCTGTTTGAAGCATCGACTTCGCTGCGCAAAATAGATT
CGGCACCTTTGACAGCCAACACGGCAACCTGCTCGCGCAGGGATTTCGCTGCGCGGAACA
ATTCGTCTCCACATCGGCTTTTGCTGAGCTGCAATGCGCGCGCTCGGAAGAAGCCT
GTTCTTTGGCTTCTTCGACAATTTTGGCGGCACGTTTTTTCGGCGTTGGCAACCATTTTCGG
AAACCTGATTACGCCCTTCTGCCAAGAGTTCTGCAACCTTTTTTTCAGCCTGCTCAAAAT
CGCTTTTACCACGCTCGCGGCGAGCCAAGCCTTCGGCGACTTTTTCGGGCACGCTCATCCA
AAGCTTTTGAATCGCGCGGCCACACGAATTTTCATGGTAAACCATACCAACCGGAAAAAGA
CGATGATTTGAGCGAATAATGTTGCATTGATATTACGTTACTTAACCTTCGTACTGGGG
TTAATCAAAACAGGCTCGCCTGTACGGAACGGACGAATCCGTCTGATTATGCACCTGCA
AACGGGTTAACGAAGGCGAACAGCAGTGCAATGGCGACACCAATCAAGAATCGGGCATCA
ATCAAAACCGGAATCAGGAACAGTTTGGTTTGCAGCGGACCGATCAGTTCCGGCTGACGG
GCAGAAGACTCCAAATATTAGAACCAGCATTCGGATACCGATAGAGGCACCCAAATGCA
CCCAATGCAACGATCAAAACCATGCGATAGCAATCAAAACCAATTTAAACTCCTTAAAG
AAACAAAGGTTAAACTACAAAACAACTACTTAGGAAAATCAGTGCGCATCATGTGCTT
GTCCGATATAGACGAACGCCAACGCCATGAAAATAAACGCCCTGCAGGGTAATCACCAAA
TATGGAATAATCGCCATGCCAACCGCAATAATGTGGAATACAAACAGAAATCGGATCCA
TGACTTCGACGCTGCGCGGAGCCGCCAACGACCGCCAAGCAAGGCTATCAACAAGAATA
CCAATTCGCGCGCATACATATTGCCGAACACCGCATACCGTGGGATACGGTTTTAGAAA
GAAACTCGACCAAAATCAACGAAAGTTTCGAGGTGCGAGTTTTCACCGAACGGCGCGC
TGAACAACTCGTGAACACCGCACCCCAATCCTTTGATTTTGTGATTTGTAATAGATACAAA
TCAGAACACCGCGACAGCGAGTGCCAAAGTGGTGTCAAATCGGCAGTCGGTACGACGC
GCAGCAGGGCGTATGTTTGGCGGTAATGCCCTGCCATACCATCGGCAGCAAAATCGACCG
GCAGCATATCCATCGGTTTCATCAGAAAAATCCAGACAAACAGCGTCAGACCCAACGGCG

Appendix A

-454-

CGACGGCTTTTCTAGACTTTTCGTTGTGAATGATGCTCTTACACATATCGTCCACAACT
CAAACAAGATTTCCACTCGGGCTTGGAAACGTCGGGGAACGCTGCCGTCGCTTTTCTTG
CACCAGCGCCAAACAGAAAGCTGCCGATTACGCCCAACAGGACGGCAAAAAGACGGCAT
CAAGGTTAATAAACGAAAAATCAGCAATGTTTTTCAGTCCCTGACCCCTGAGTAACATCCG
ACAAACTGGTCAAGCTCTGCAAGTGGTGTGATGATGATGCGGCAGCGGTAATGGTTTCAC
CTGCCATAATCTTTCACTCTCAACAATACTAAAAAACCAATGGCTGACACCGAGCAGC
CCCATCAGAAACGGGGCGAACACCGCGATTGATGCCATATTGCAATACGGCAAGCATG
GACAACAGCGACAGCACTACTTTTAAATCTCTCCGAAGACGAACATCCTGCTTTCAGG
AAGGGGTTTCCCTGAAAAGTTTTAAAGTAAACTGCAACAAACGTGGGAAGCAGGTAG
GACAAACCGCCACCGACCGCCGAAAGGAATCCGGCAAAACCCATACAGCAAGGCAACT
GCGGCGCATATGGACAATACGGCGGATTGTAGGATGATAATCTGCTTCATAAAGGGAATG
TTTCCGCTCGGATTGGGGCGCGCTAATATAATTAGAGCCCTATTACGTCAAGCGA
CAGTTAATCTTTGTGAACAACGTATCCCAATCCGCGCGCTCGCGCTGAATAACGGC
GACAGGTGTCTTCTAACAACATACATATAATTACAGGATATTAGGAGTTTGTCCGC
AATTTCTTTACATTTTTATGTTCTTACGTGATTGTTTGTCTTACGTGGAATAATAAA
AAATCAACGCGAAATTGTAGCAGTTTATCGGTGCGGATTGTGCGCAGTTTGGGGAATTTGC
TCAATAAATAAAGGTCCTGTGAAAATATTTTCAGACGACCTTTTCCGAATAAAGGATTA
GCAACTGCCCTGCCGCTTTAAGCAAGCATTGCATTGACTTTTGCTTTGTGCGTTCGCC
TCCCAACAAATTGCATCGGAAGTGGTAACGCGGATTGTGCTGATTACACTGGTAACATA
GCATTGGCTCAGCGCTTACCCACAGTTGCGGTAAAGTTGATGCGTATGCCCTTCTTGT
GCGGTTGCTGATTTTACGGCATTGGGCTGACGCCAAGGCAACGCGGCAGCTTCTCTG
AAGTTTCTAGTCGGAACGGTTACATTATGATTGAGCCGCAACCTGCTAATGCCAACGC
AACGAACGCGAGCCGAACGATGATGCGTGTGTTTCATAATTTCTCGAAAATAAAAATGA
AAACAGGAAACGATTTTACGTGAGCAGAAATAATGTCATAGATTATATTTTCCAC
TTAAATCTGGAAGCTATTCTCTATATTTTCAGACGGTATATCCGCAAAATTAAGCCG
GTAATCTATGCCCAACTGCTCCAGCAGGTGGCGCAACGTTTCAGGCGTATCGAAATACAG
GACAATCTCGCTTTTGTGTTGGCGTTTGTACTTACGCGTTGACACCCAGTTTTC
AGTCAGCAATCATTCAGGCGGCGGATGTCGGCGGCGGCGAGTCTTTTGGGCTCGGGACG
TTTGTGTTGAAGGGCGGCTGGCTGCGGCGTTCGACTTCGCGCACCGACCGCCGTTT
GACGCCCTTTGCGCCAATTCGAGCTGTTTCGACGACGGGCGAGGTCAGCAATGCGCGGC
GTGCCCATTTTCGAGCGCGCTTGGTAAGCATTTCCTGACGCGGTCGGGCAGGCTTAA
AAGGCGCAGGCTGTTGGAATCGCGCTTCGCTTTTACCGACGGCTGGGGCATGTTTC
GTGGGTGAGCCGAACCTGTCGGCAAGGCGTTTCAAGCCTTGTGCTTCTTCGATGGGGT
GAGGTTTTTCGCGCTGGAGGTTTTTCGATCAAAACCCATTGCCAATGCGGTTTTCTGCTGAT
GGTTTTGATAACGGCGGGGATTTCCGTCAGGCGGCAATCTGTGCGGCGCGCAACGGCG
TTCGCCCTGCAATCAGTTCTGATCGGGACAGTCCGTTTCGCGCACGATGACGGGCTGAT
CACGCCCTGCGCTTAATCGAATCTGCCAGTTCCTGCAAGGCTTCGTCATCGATTGAAC
ACGCGCTGATAGCGCGCGGCGGATATCTTTAACCGCAACCGTGGTCAATCGGTCGCC
GCTGCTGTTGTCCGCGCGTGGCGAGCAGCGAATCCAAGCCGCGCCCAATCCGCTTT
TACTTTTGCCATACCGCCCTCCCGTGCTTATCAGATAGGATGTTAAATCGGGTATTTTA
TCGGATATTGGTATTCGCCGAATTTGTATCCGCGTTTTATCGGATTTCTGTTTTTTCAC
TATAATAGCCGTTTGGCGTTGACGGCGGTTTTATGGGAAAGGCGGATGATGGTACGGCG
TTTGATAATCGGCATCAGCGGGCGGAGCGGTTTCAATACGGCGTGAAGGCTTTGGAAT
TTTGGCGCGCAAGATGTCGAAACGCACTTGTGTTATCGAAAGGTGCGGAGATGCGCG
CGCTTCGGAACGGCTTATGCGAGAGACGAGGTATATGCCTTGGCGGACTTCGTGCATCC
GATCGGCAATATCGGGCGTGCATTGCCAGCGGTACGTTTAAACGGATGGGATGCTGGT
CGCCCCCTGTTGATGCGGACGCTTGCTCTGTGCGCACGGCTTCGGCGACAATCTGCT
GACGCGTGGCGGATGTTGGTTTTGAAGGAAAGCGCGGCTGGTCTGATGGTGCGCA
AACCGCGCTGAACCTTGCCCATTTGGACAATATGAAGCGGTAACGGAAATGGGCGGCGT
GGTGTTCCTCTGTCGATGTACCGCAACCGCAGACGGCGGACGACATAGTGGC
GCACAGTGTGACACCGCTTGTGCTGTTTCGGAATCGATACGCGGATTTCGGCGAATG
GCAGGGAATGGCGGATTAAGGACAAAAATGCCGTCTGAACACGGATACAGTTCAGACGG
CATCATTTATACGACTGCCTTATTTGGCTGCGCTTCATTCCATGCGGCAGGGGATTG
TAGCCCTCGAAGCGTTTGTGCGCTAGGCTTTGAACGCGTCGGAGTTATAGGCCTCGGT
ACGTCTTTAAGCCATTGGCTGTCTTTGTCGGCGGTTTTGACGGCAGACAGTTGACATAG
GCAAAGCTCGGTCTTGAACAGGGCTTCGGTCAGCTTCATGCCGCTGCTTATGGCGTAG
TTGCCGTTGACGACGGCAAAATCCAGCTCGGCGCGGCTACGCGGCAGTTGCGCGGCTTCA
AGCTCGACGATTTGATGTTTTTCAGGTTCTCGGCATGTCGCTTTGGATGCGGTCAAC
GGATTGATGCCGCTTTTGAGTTTGTATCCAACCCAGTTTCGTCGAGCATCACCAAGACGCG
GCGAAGTTGGACGGGTGTTGGGCGCGGATACGGTCTGCCGCTTTGACTTCTTCCAGC
GATTTCAGCTTGCCCGGTACAGTCCCAAGCGCGGTCGCACTTGAAGACTTCGGT
ATGTCCAGATTGTGTTCTTTTTGAAGTCGTCAAGATAGGGTTTGTGTTGGAAGACGTTG
ATGTCCAACTCGCCCTCAGCCAATGCCAGATTCCGGCGTACATAGTCGGTAAACTCGACC
AGTTTGACGGGTGAGCTTTTTTCTCCAGCTCGGCTTGGATTTGTTCTTTGACCATATCG
CCGAAGTCGCCGAGGTTGTCGGAAGACGATTCTTTTTTCGCGCGCGCTTGTGCGCG
GCGGCAAGCGGATGCGGCGGCGCGCTGTCTTTTGACCGCGCAGGCGCGGAGATG
AGCGCGAGTGGCGCGGGAAGGGTTTTGAAGAAGGTTTTCATATTTCTCTGATGTT
GTGGCAGTTTCAACAAAAATGACGGGAGGAGTCTGCCGTCGGATTGCGGCTTCAG
ACGGCATTTGCCGCAACAGGGGATTTTATAGCATTTTTCGGATAGCGGTGGGGTTTT
GGCGTTGACACGGCATTCGGGTTCAACGTTTGTGAGTTTTCGCGCAACGCGTTGCCG
TGCTTTGAATCAGGATGACACGACGACGAGGAGGCGACGATGAAGATGATGACTTCGG
TTTGGTAGCGGTAGTACCGTACGCGATGGCGAGGTTCGCCCAAGCGCGCGCTATCA
TCCCTGCCGCGCGCTGTATGACAAAAGCCGATGGCAAGCAGGTAATGTGGAACCA
TGCCCGCGCGCTTCTGTTCAAGAGGACTTTCAGACGATGGCAATCGGCGGCGCACCCA
TCGCGGCGCGGCTTCAATTACGCTTTGGGGACTTCGCGCAGGTTTTGTTCCACAGTC

Appendix A

-455-

GGGCAAAATAAAACAATCCCGACACGCTCAACACCAGCGAGGCGGCAACCGGACCGATGG
TGCTGCCGACGATGGCGCGTGTGGCGGGTATCATCGCAATCATCAGGATGACGAAGGGGA
AGGCGCGCATGAGGTTGACGAGGTTGTCGAGCAGGAAGTTCACCAGCTTGTGTAATGCA
GTTGGCGGCTGGAGTTACGAAGAGCAGCAGCCAGCAGCGTGCCGAAGATGACGGCGA
ATGTGGTGGACAAGCCGACCATCAGGAAGGTTTCGCCCAAGGCGCGGAAGATTTCTGTT
TCATGCCGACGATGGTGGAACCGCTTGTGGAATGTTAAGTCTGCCATATCAGTCTCTCC
CGAATCAGTTTCGCGCCCGATGTCGGATTGGCGGTGATTGTTGTCGCGTACTTCGACG
ATTTGACGACTTTGCCCTTATCCAGAGGGCGGCGCGTGCACAGGCGGCGGATGACG
CTCATTTTCGTGGGTTACGATGACGATGGTTACGTTGAAGCGTTTGTGATGCTTCCAAA
CATTCCAAGACGCTGCGCGTGGTGGCGGGTTCGAGGCGGAAGTGGGTTCTGCTGCGAGG
ATGACTTGGGGTTTGGGCGCGAGTGCAGCGGGCGATGCCGACAGTTGTTTCTGCCCCCG
GAAAGCTGGGCGGGATAGTGGCCGCGCGTTCGGTCAAGCCGACGATTTCAAGGCATCT
TTAACGCGCGCTTGTATTTTTCAGACGGCCATCCGCGGATTTCCAAGGAAGGCAACA
TGTGCGGCAACGCTGCGGTTGCTCAAAAGATTAACTGCTGAAACACCATGCCGATATTC
TGCCGAGCCTGACGCAATCGCGCGCATCGAGCGCGTCAGCTCTTGTCCGACAGCTTG
ACCTTGGCGCTGTCGGGCGGTTCCAACAGGTTAATCAGGCGCAACAGGGTGGATTTGCCT
GCACCCGAATAACCCATCAGCCGAAGATTTCGCGCTCGCGGATTTCGAGGCTGGTGGC
TCGACGCGGCAAAACGGGCTTGTGCGCGCTTGGTAATGCTTGGAAACCTTGTCCAAA
ATAATCATTGCTTTCCCATACAACAAAGCCGATGTCGGACACAACGGGCGCGGAAGAT
AAAGCTGAAATTGTCGAACGCTTTAGCTGTTATGCCGCAAGCTGTGTCAAAATCGGCAG
GTTAATTTTCGTAGGATATTATCGGGAAGCATTTTTGTCAATAAAGCAGGAAGCGGG
CAACCATTTCGACAAATGCGCTCTGAAACGGGCAAGGCAGCGGTTGCGACCAAAACGGC
AAATAATTGAAAACATATAGTGGATTAAACAAAATCAGGACAAGGCGACGAAGCCGAG
ACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGAATCGTTCT
CTTTGAGCTAAGGCGAGGCAACGCGTACTGGTTTTTGTAAATCCACTATAAATTATGTC
GGAAACATTTCCAAGGCGGTGACGTTTCGGCATATAATTCGGGCAACGCCGTTCAGAC
GGCATTTTGCTTTTCCAACCTGACCGTTCAAGGTTCCGATTCTTAAGGAAATCCGATG
TACCTACCTCTATGAAGCATTCCTGCGCTGCTGGCGGCCCTGGTGCTTGGCGCGTGT
TCTTCGACAAACACACTGCCAGCGGCAAGACCCCGGACAGCAATATAGAACTGCCGAC
CTTTCGGCAAGCGTTCCCAACCGCCCTGCCGAACCGGAAAGAAAACGCTGGCAGATTAC
GGCGGCTACCCGTCCGCAAGGTTGCGCATGAGTGCAGTGAACAGAAAACGATGCCGCGTGC
TATTTGGAAAACGCGGCGACAGCGCGATGGCGGAAATGTCCGCAACGAGTGGCTGAAG
TCTTTGGGCGCAGCAGACAGTGGACGCTGTTGCACAGGAATACGCCAACTCGAACCG
GCAGGCGCGCCCAAGAAGTGAATGTACGCCGATTTCAGCGGCAACGACTATACGCT
GCCGCTGAACCTGCTCAAAAATACGGGCAAACTGCCTTCGGGCTGCACCAAACTGTTGGAA
CAGGCAGCGCATCCGGTTGTTGGACGGCAACGACGCTGGAGGCGCGTGCAGCGGACTG
CTGGCGGCGCCCAACACAGACGACGCAACCTTGGCGCGCATTGGGCAGCCCGTTT
GACGCGGTACACAGGTTTCGCGCAATATGCCCTGTTGAACGTCATCGGCAAGAAAGCA
CGCAAAATCGCGAATGCCGCGCCCTGCTGTCCGAAATGGAAGCGGTTTAAGCCTCGAA
CAACGCGATTTCGCGTGGGCGTATTGGGCGATTATCAGTCGCAAAACCTCAATGTGCT
CGCGCTTGGACTTACGCAAGGTTGCCGACGCGCCCAACTGACCGACGACCAATC
GAGTGGTACGCCGCGCGCTTGGCGCGCCGACGTTGGGACGAGCTGGCCTCCGTTATC
TCGCATATGCCGAAAACCTGCAAAAAGCCGACCTGGCTCTACTGGCTGGCAGCGAGC
CGCGCCGCAACGGGCAACAGCAAGAGGCGGAAAACTTTACAAACAGGCGGCGAGCGAGC
GGCAGGAATTTTATGCGGTGCTGGCAGGGGAAGAAATGGGTTCGGAATAATCGATACGCG
AACAATGTGCCGATGCCGGCAAAACAGCGTCCGCGCATGGCGGAAGACGCTGACGTC
AAACGCGCACTGGTACTGTTCAAAAACAGCCAATCTGCCGGTGATGCAAAAATGCGCGCT
CAGGCTCAGGCGGAATGGCGTTTTTGCCACAGCGGCTTTGACGAAGACAAGCTGCTGACC
GCCGCGCAAAACCGGTTTCGACCACGGTTTTTACGATATGGCGGTCAACAGCGCGGAACGC
ACCGACCGCAAACTCAACTACACCTTGCCTATATTTCCGCGTTTAAAGACAGCGTAATC
CGCCACGCGCAAAATGTTAATGTCGATCCGGCTTGGGTTTATGGGCTGATTGTCAGGAA
AGCGGCTTCGTTATAGGCGCGCAATCCCGCTAGGCGCGCAGGGGCTGATGAGGTTATG
CCTGCCACGCGCGCGAAATCGCCGGCAAAATCGGTATGGATGCCGCAAACTTTACACC
GCCGACGGCAATATCCGTATGGGACGTTGATATGGCGGACACCAACGCGCGCTGCAA
AACAACGAAGTCTCGCCACCGCGGCTATAACGCCGCTCCCGCAGGGCGCGCGGATGG
CAGGCGGACACGCCCCGCAAGGCGCGTATATGCCGAAACCATCCCGTTTTCCGAAACG
CGCGACTATGTCAAAAAGTGATGGCCAATGCCGCTACTACGCGCCCTCTTCGGCGCG
CCGCACATCCCGCTCAACAGCGTATGGGCTTGTCTGACGCTGACGTACCGATGCC
GTCTGAAACCGCGCGCTTTTCAGACGGCATTTTTATCCCGAACGGCATTGACGGCGAA
CCATAAATATAAGACAATCCGAAATGTTTTTCTGCTTTTCAAGCAGCTTGACACGG
CACAAGCCGACCGTTAGGAGGTGATGTTTCCGTCACGCGCGTATCCCGCGCGCGCAAG
GCACAGCGATACGGTAAACTTTCAACACCGTCTGCCCTACCTTTTCCACCGATATGATGG
GCAGATGAAACAACCGAATTTATTAAGGAAATAAATGCTGCAATCCGCGTAAAGAG
AATGAACCATTTGAAGTCGCTATGCGCGGTTTCAACGCGCGGTAGAAAAACCGCGCTG
CTGACCGAGCTGCGCGCCCGCGAAGCCTACGAAAAACCGACTACCGAACGCAACGCAAA
AAAGCGGACGCGTAAACGCGCTGCAAAAACGCGTGCAGCAACAACTGCCGCGCAAA
ATGTACTAAACGTTCAAGTACAGATTACAGGTGACGCGCTGTGATATGAGGACACACCGCA
AGACCTGCTCTGCGGTGTGTTTTGCTTTTCAGACGGCATCGAAACCGCGCTTTCCATCC
GACATCCAGCGAGGACATCATGAGCCTGAAAATCCGCTTACCGAAGACATGAAAACCG
CGATGCGCGCAAGACCAAGTTTCCCTCGGCACCATCCGCTCATCAACGCGCGCTCA
AACAGTTTGAAGTGGACGAACGCACCGAAGCCGACGATGCCAAAATCACCGCCATCTGTA
CCAAAATGGTCAACACGCAAGCAAGACAGCGGAAATCTACACTGAAGCGCGCGTCAAG
ATTTGGCAGACAAAGAAAACGCGGAAATCGAGGTACTGCACCGCTACCTTCCCAAATGC
TTTCCGCGCGGCAATCCGTACCGAGGTGCAAGCTGCCGTTGCCGAACCGGCGCGCGAG
GTATGGCGGATATGGGTAAAGTCATGGGGTGTCTGAAAACCGCGCTCGCAGGTAAGCCG

Appendix A

-456-

ACATGGGCGAAGTCAACAAAATCCTGAAAGCCGTGCTGACCGCCTGATTGCCCCGAATATC
GGACAAAATGCCCTCTGAAGCCCGTATCGCAGGTTGAGACGGCATTTTCAATATCCCAAT
ATCGAATCGGCAGGGGCAACACGGTTTGTATACGCCGAAACGGGTTTGCCGATAAACAG
ATTCCGTTTGCGCCCATCGGACAAAATGCCGTCTGAAACACGATTCCGTTTACAGCGCA
TAGATTTATTTGACCAATTTCAAGCCTTTTGTGCGGGTCGGGGCGCGGTTTTCGGCAGAG
GTGTTTTTCAGGCGGCGTATCGGGGCGGTACGCTTCCAACCAAACCCCATACCTTCTCCG
GTCTCCCGTGCCGAAAAGGCTGAGGACGTGTCCGACAGGTATCCATATATCGTGCGCCTGT
CCGCCGAAGCGGGCGGAAAAGCTGATCCAATCGTTGTCGATTTGAAGGTTTTCGCTGGCG
GTCGCGCCGATGTTGAGCATAATTTTCGTTGTCGCGGACGTACTGCATGGGGACGCGCGTG
TGTTTCGTTGACCCAGACAAAGGATGTGCGGTGTGAGGCTGTGTGCTGCAACATTTCGCAG
AGGGCGCGGAGGATGTAGGGTTTGGTGGAAGTGGGCATAATGGGTTCCGTGTTGTACGCC
AAAATAGGAAAATGCCTGCAAAACGGTGGGTTTTGCAAGCATTTCCGACTTATTTGCACA
TGGCTTTTTCGCGGGGTGTGAGTCTTCGATAAAGGCTTCGCGCTGGAAGATGCGCTCGG
CGTATTTGAGCAGCGCGCGCGCACTTTTGCAGGTTGACATCGTAGTGGTCGAGCCGCC
ACAGCAGCGGAGCAAGGGCGACATCAATCATAGAAAATCTTCGCCGAGGATGTATTTGC
TTTTGCTGAACGAAGGGGCAAGCATGGTCAGACCGTTGCCGATGGCTTCGCGCGCTTTTG
CCTGTTCTTGTGTTGGTGCGCGCGGGGTTTTCTAACACTTGGACGTGGTTGAACAATTCTT
TTTCCATACGGTACAGCACCAGCCGGCCCCGACCGCGCATACGGGATCGCCGGGCATCA
GCTGCGGATGGGGGAAGCGTTCGTCATGTATTCGTTGATGATATTGGACTCGTGACGA
CCAAATCGCGCTCGACACGACCGGAACTTGGTTATACGGATTATGACGGCGAGGTCCT
CGGTTTGTGTTGTAATAATCGACGCTCTTGATTTCAAAATCCATACCTTTTTCGTACAAA
CGAAGCGCGACGGTGGCTGAAGGGGCGAGTAATGCCGGAATAGAGGGTCATCATAATAA
TTGTCGCTCCTGTGTGATGCTGCAAAACGGCTGATTTATAGTGGATTAACAAAACCCAG
TACGGCTTGGCTCGCTTCGCTTACGCTCAAGAGAACGATTCTCTAAGGTGCTGAAGCAGCA
TGAATCGGTTCCGTAATTTGTACTGTCTGCGGCTTCGTCGCTTGTCTGATTTTTGT
TAATCCACTATATAAAGGTTAATCGCGCAATTATACGCGATTTCCGGCACTTAATCCAG
AAATTCGGCTCAATCTGTTGTTTTATATATTTTCCCGATTTCGCTATCAGTGCAGAA
CTTACTGTCTTTGTTGCGCGGACGCGACCCCTGCCAAACCGTCTGCCAGCCTTGCAGCGC
ATCCGCAATTTGGGGCAGGAGGACGATGCGGTAGCGGCATTGTACATCGCCGACGCGGTG
CGGCAATGTGCGGTATGCGTCCAAACAATCCGCGTGTGACAGTCCGCCCGCCTATGCC
GATACACTCGATCCGCTGCTGAAAGCTCCCGTTTCAATTCGGGGAAAGCGATGCCTCCAT
ACTCCGACGACCGGCGCTGGCTTTTCGCGCGCTCCAGCCACGGCAGGAACAGCGTCAT
CAGCAAGGCCAGGTGAGGTAACGCTGCCGCCAGTTGGTAACGCGCTGCCTGCCGCG
TATGTTTTTCCGGGTAATCGCCACAGCCACAAGGTTGTGAACAGTACGGCAACCGCAT
CGGAATGGGATCGATATCAGGAACATAATACGGGCTGAAATAGGCGGCGGCTTCGGCAAG
CTTGGCGGGCCAGCCGTAATTCATGGCGAAAAGCCCGTCCACAGGAACACGGCAACAG
TCCGAACGCCATAATCCGAACCACTTGACAAACGCCCGCGCGCGCTCAGGCTGTC
CAGTTGCGCGCGCGGCAAGCGGCAAGCGGCGGAAGCAGCAGCAGGTTATCTGAAA
ACGCTGCGGATTGACGGCAAGCAGCACAAAACGGCAAGCATCCAGACGACGCCAAAAT
CCCCAGTCCGTCGAAAACAGGCGCGTGCAGGCAACCGTCCAAACCGCAGCGGCAGCGC
GGCAATGCAAAACCAAGCAGGTTTTTTCAGATAGTAAACAAACTGAATGCCGTCTGAAC
GTGCCGACGCGCGCGAACGTACCGAAAACGTGATAGTCGAGCCATTGCGCGAACAGCGC
GGGCTGCGTTTTTGCCAAAGAGCAGCGGTAACCGGTATAGCGGCGAGGGCAAGGCAAG
TGAGGCGACTGCCGTCAACATCAACGCGCTGCTTTGCCACGGACGGAACACATCAGTAC
GGGCAAGGGCAGCATCAGGGCAATGCTGCCGATAAGCTGCTGCCAACGACATCAGCGT
CCAGCCCGTACCAGCAGAAAAGAGGCGGCAATCAGCGCGCGGCGAGCCAAAGAATAACC
GTGCAGCACCAGTCCGCGGCGGCAAGGCGGCGGCGAGCGGGTTGAGGAAATGGGCAAC
TGAATCAGCCCGGATGAGGATGAGAAATCAGGACGACGCTGCGCCGCTGGTGTCTGCC
CAAAAAGTTGAAACCGGCAAGCCGAGGAAGTCAGTCCGATAACGGCAAAAATACGCC
TGCAAGCGTGGCGCATCGTATGAGTCGGCAGCCACGGCGACAGCAATGTTTGAACGC
GGCGGCAACCCAAAGATACACGGGCGGTATGCCGAAATCGGTTTGACCGAACAGATGGGC
AACCAAGGGGTGGGCTGCGTGCAGTGTCTGACGCGGATAGACGGCAGGTTTCGTG
AGGATTCACAAATCGTGGGAAAACAGCGCGGCGCAACACAGGCAACAGCCATCAACAG
CAGCAGCCAGCGCTTTTCGTGGGTTTTGCGGGCGGGCGGCGATCGGGCGGGGTATAGGT
CAGCATAAGCGTGAGAAAATGACCGGATTGCCAAGTGAGCAATATTCGCACAAAGG
TCGTGACAGACTGCTTCAGACGGCATCAGACACAAAAGACCGGCAACAAAAAGACTG
CACATGGCAGTCTTTCAGATATCTTTTTCATAATATTTTTCCTAGCCCAACACAG
TCCATAGCATATCAAACTGTTGTTTTCAACCAGGATATATATCCCAATCCTAAATAAA
CAACAGCAACAAACCATCTGCTATATTTTCCAAAGTTTCTCCAACAGAAGGACTTGTG
CTAATTTTGGGCGAGAAAACCAAGAGATAAATCATGACTAGAAAGGTAAGTAAAGCCA
CTATCAAAATTCGTAATTTAAGGTAGTAAATATGGGACAAAGACACCAATATTGTGAG
CACCACAACCTTGCAAAAGTAATCATAGCGACTAGAAAAATCAGGTTTTTATTATCTTGC
GCAAAACCTCTTTGGCAATAGCCTCTCCATCAGAAATCTCTAAAGCAAAACTTTGATGC
CTAGGAGAATTGGAATCAAGCCGAGCAAACTAAATCTCTTTACTAGGAATATAATCTA
AGACAAATGCAAAAGATAAATTTAGCAATATCAGACTAACAGAGCCTAGAAATTTGCTCA
AATAGATGTTAATGATGCTTTTTCTACTTTTTCTTTTGCAAAAAAATACATTAGGATAA
TAAGTAAGTCTACGGCTGTCCAGAAATACAGGATTATTGAAGTAACGACATTTTGAATCA
TAAACATCTCATTAATAATATTTTAAATGTATTCAAACATTAACCTTTGTAGATGTC
AATTTCAACCCCGTCAAAATATAGTGGATTAAACAAAACAGTACGGCGTTGCCTCGCCT
TAGCTCAAAGAGACGATTCTCTAAGGTGCTGAAGCACCAGTGAATCGGTTCCGTAATA
TTTGTACTGTCTGCGGCTTCGTCGCTTGTCTGATTTTTGTAAATCCACTATATAGATA
AGAAGTCAGTGTGCAAAATATTAAGGCGCTGCCATCGAAATGATGGCAGGGCTTAAT
CTTGCAAGCGGCAATCAGCGTTTGAACAGGTTGCCGAATTTGTTGTTGAATTTGTCCAC
GCGGCGGTTGGTATCAACGATTTTTTGGGTGCGGATAGAACGGGTGGCAGGGAGCA
AACCTCGATATTGAAGTTTTCTTTTCCATCGCGATTGTTGCGAATTTGTTGCCGCA

Appendix A

-457-

AGAGCAGGTAACGTTGACTTCGTGGTAGTTCGGGTGAATACCTTGTTCATTGATTCC
TTTCAAAAAGCGGGCATAGGGGATGTACCTATGCTACAGACAAGTCCGACATTCTCGCT
ATTTTCTGTTGTTACGTCAAGAGTATATTGATAAAATGTATAGTGGATTAAACAAAACC
AGTACAGCGTTGCCCTCGCCTTGCCGTACTATCTGTACTGTCTGCGGCTTCGTTGCCCTGT
CCTAATTTTTGTTAATCCACTATAAAAAGTCTTTTGAGGGAGGTTTGATGGGATCAAAA
TTCTTTTCTGCTGCTGCGTTTTGCCGGTTCGGGGTTCGCCCGTCACATATGCGCGGC
ATCGGCATCGTCGCGCAGACGGGTGCGCGGTTTTTTGGCGCGCGGGTTTTCTCCGCATATC
GGACGCGGGGTCAATATCGAACGCGGGGCGTATGTGTTTCCGGATACGGTTTTGGGCGAC
GGCTCGGGCATCGGGGCAAACTGTGAAATCTGCCGTGGGCTGGTGGTCGGCAAAAATGTG
ATGATGGAGCCGAATGTCTGTTTTATTCAAATAACCAACAGTTTTGACCGTCAAAAAAC
GCTTTGAGGGCTACACGGAATCCGTCGATTACGTTGAGGACGATGTCTGGCCGGGGC
ACAGGGTGATTGTAATGCGGGCGTAACCGTCGGACGCGGTTCCGTCGTGGGCGCAGCGC
GGTGGTTACAAAAGACATCCGCCCTACTCTTTGGCGGCGAGGCAATCCGGCAGTGGTGAA
AAAGAATCTGCCGGAAGGTTGAATGCCGTCTGAACGTGTGGGGCGGATGATCTGAAAAA
ACAGGAACATCGTTCTGTTTTTTCGCTTCAGACGGCATCGCTATGCGCCACGCGGTA
TCGATTTCTTGGTAGAGTTTCCGGAATCCGGTTCGCGACGTAAGTTTTGAGGATTTTCG
CCTTTTTTGGCGATAAGGACGGAAGTCGGATAAACCTGTGTGCCGAACGCTGTCCGACA
GCTTTGTCCGCATCATACATGACGGTAAACGGCAAAACCGTAGTCTTTGACATATTGGCGG
ACGCTTTCTATCGGATCGATGGGCTGGGCGACGGCAAGTACTTGGAAAGTTTTTGTTTTTA
TAGTCATTTGGCGTTTAAATGATTGTTGGGCATTTTCGCTCACACAACCCGACAGGAGGA
AACCAAAAATTAATCAGGGTACTTTGCCCTGCAGGTGCGCGTTGGAAACGGTTTTTCCG
TGCAGGTGCGGGCAGGAGAGGCGGGCGCGGTTTTGCTGTGCGGGATGAGGACGATGGCA
AGGAGGATGCCGATCAGTGCAGACGCGCGCGGTGAGTATTTTTTTCATTGACAAAGG
CTTCCAAATGCGCGGGCAAGGGTGGCGGGCAGGCTGACGGTGCCTGTGTGGCGCGGTGGA
CGGGCATCAGGGTGATGTGCGCTTCTGCGCGGTTTTGCGGTTTGGCAGTGAATCGTCT
GGGTACGACAATACGGCGCGTGGCGGGGTTTTTCAGGCGGCATGAAAACGTGAATACGT
CGCCTTCGACGGCGGGCGGCTGTATCGGATGTCTGATGCGGGCGACAATCAGTATGAGGC
CTGCCAACTCGTGCAGCAGTCCGCGTTCTTCAAAAAACGCCAGCGCGCTTCTTCGAAAA
ATTCGAGGTAGCGCGCATTTGTTGACATGGCCGTAGCCGTGAGATGGTAGTTGCGGACGG
TCAGCTTCATCAGTTCAGGTTGATGGGTTGGAAGGCTTCGCGGGCAAGCGTTTCGTGTT
GAGTCCGTTGATGACGGTAGAAAGCTGGATGTGCAACCATTCGTTGAAAATGTCGGCATC
GAGCGCAGGCCACTCGCGTTCGTCTTCGACCAAGTCGGCAAGTTCGGCGGCGAAAATGTC
TTCAAAACGGGCTTCGATTTTCGTCCCATACTTCGTGCGCGGTTTCGCACGGGCGGACAAG
GTAGGAATTGGCGTCGGCTGGATGTCTTCAAGAGTCAGTCCGTGAGGTGGTTGCCCGG
CAGGGTTTGCAGCCAGTTCAAAAAGGTTCTAAAGGGATGAGGACGAATACGCTGCGGTT
GACTTCGTACATGTTTTCCTTTGCTGTGCGCGCGTATGCGCAAAAAGAGATTATAGC
CCAATCTGTGGTTTCGGACTGTCCGTTCCGACAGAAGGGAATGCCGTCCGAACACGGATT
TTCAGACGGCATGGCTTTAAGGTTGTGTTCCAGGTTGCGTTTCGGCTTCCCTGCTGCTT
CTGCCGTGTTTTCGGATACGGAATCTTCTGAACGGCAGTTCCGCCGCGCGGTTTCGG
CACTTTCGACCAATTCGTGATGTGATGTTATCTTCCGTACCTTCGGCAGGTGTTGCAC
CGGTCTGCGCGCGGCGGACTTTTCATATAGAGGTGCGCGGTGATGCTGATTGTCGATGG
CGGCTTCGTCCAGACTGTGCGTCAAATCGAGCAGGCCTTCGCGCGTACTGACGGCGGATA
CGGCAGTCGTGCCCCAGCGTCCGACAGGGGTGCGGAAGACGATATCTTGGGCGAAATAAA
CGGAGGTAATAACCCGTGCGGCGGTGCGGACGGTGGACGGCCCTAAGACGGGCAACA
CGAAATAAATGCTGTTTTTCCATCCCCACGAGGCAACGTGTGCCCCAAGGTGTTTTAT
TGTGCGGAATGCCGCCGCGCGCGGCGATGCGATAAGCCCGCCAAACCGAAAGTGGTGT
TGATGCCGACGCGGACAAGGCTTCGCTTTCGCGTTTGTATGTCGAAGCGCAAGATATGC
TGCCGAAGCTGACGACGTGCGACAGGTTGTAAAAAAATGGACACGCGCGCGGACGG
GTTTCGGCGCAACTTTGCGGTAGCGCGCGCGGCGAGGGGCGAAAATGTAGCGGTGCGCTT
GGTCGTTGAATTTGAAAACGGCGCGGTTGTAGCCTTCATAAGGGTCGGCGGGGCGGTTT
CGGCAATGACAGGGCGGAGCGGAACCGGATCAGCAGGAGGAAGGCATAGCGGTTTTTT
TCATGATTTACGCCAGTCTTTGATTTCTGACAGTTCGGACAGCGCGCGACGGATTTCGGG
AATGCCGGTCAGCTGACGCTGCTTTGCAACCGCGCAGCACTTCGAGCAGCAGCGACAC
GCAGGCGGAATTCGCGCGCTCCGACGCGCTCAAATCAACCGCGCAGGTGTCTTTCAGACG
ACATTGCTGTCTGAAGCGGGTAAAAGCGGCGCGGTGAGGGTTTTGACGGTGATGTGCC
GCCGATGTGCAATATTCGTTTTTGTGTTCTGTATGATAGCGTTTGTGCGAAAACCCA
TACCGCCCTCGGACGGTATGGTTTTGTGCGTTATTTGCCGCGGTTTTTGGCTTTCAACTCG
GCAATCAGTCCGTCGACGCCCTTTCGCTTTGATAATTCGCGGAATTGGTTGCGGTACACG
GTAACAGGCTCGCGCTTCGATGGCGACGTTGTAGGTACGGTATTTACCGCCGCTTTGG
TAGGTGGTGAAGTCCATGTTGACGGGTTTTTTCGCGGGTACGCCGACTTCGCGCGGACG
ATGATTTCTTTGCCGCTTTATTGACGATGGGATTGTCTTTGACGTTGACGTTGGCGTTT
TTTAATTTACGATCGTCCGGAATAGGTGCGGATCAGCAGGGTTGAAAATCTTTGGCC
AACGCTTGTTTTTTCGCGCTCGGACGCGGTGCGCCAAGGGTTGCCGACCGCAATGCCGTC
ATACGTTGGAATCGAAATAGGGAATCGCATAGGCTTCGGCTTTTTTGGCGAGCGGTGTTG
GCATCGCGCTTTTTTAAAGTGTCAATACTTGAGTGGCGTTTTGACGGATTGGCTTACC
GCGTCGCGAGGGCGGCAATGCCATGCCGATGCTCAAAATACCGATGCCCAATGCCGTG
ATGAGGGAGGATTTTTTCATGATTAAGTGTCTAGTTTGAATATGATGGCATACGTTTAT
TCGGCGGCTTTTTCGCTATGCGCGCTGCGCATTTTTCTCGGCAAACTCGTCATGAAT
TTGCCGATAAGGTTTTCCAGAACCATTGCAGAACTGGTTACGGAGATGGTGTGCGCGGCA
GCAAGGTTTTTCGTGTGCGCGCGCTGCTGCAGCCGATGTACTGTCGCCCCAAAAGTCCC
GAAGTCAGGATTGCGCGGAAACGTGCTGCTGAACGTGATACTGCGCTCCAAATCGAGG
CGCACCTCGCTGATAGGATTTCCGGTCAAGTCCGATAGCGCGGACGCGCGGACCAAT
ACGCTTCGGGATTTGACGGGGGCTTACCTTCAAACCGCGGATGTCGCGGAAATCGGCA
TAAACGGCGTAAGTTTTGTCCGAACCGCGCAACGCCGACCGCGGCGCACGGGAAAGCG
AGAAAGCAACCGCGCGCAATCAGGACGAACAGTCCGACCCAAAATCCAAATATG

Appendix A

-458-

TTCTTTTTTCATTAAAGTTCCTTGAATATCCGATGTTCCGCGTTTCGTCTTCAGACGGCCT
GTCAATCTGTAACATCCACGCGGTCAATATAAAATCGACCGCCAAATCGTCAGGCGCG
ACGAAACCACCGTGGCGGTGCTGGCGCGCAAAATGCCTTCGGAAGTCGGGACGCAATGGA
AGCCCTGATGCACGGCAATCAGCGTTACCGCCACGCGCAACGCGGCGGATTGATCAGAC
CGTTGATTACATCGTAATGTATCGTGATGTTGTTTCGCATTTCGCGACCAGAAAATACCGC
TGTCGAAGCCAGCCAGGTTACACCAACCAATACGCACCGAAAATGCCCGCCACGTTGA
AAATCGAAGCCAAAAGCGGCATGGAAAACACGCGCCGCCAAAAGCGCGCGCAACACGC
GGCGACAGGGTTTACCGCCATCACATTTCATCGCTTCGAGCTGTTCCGGTCGTTTTCATCA
GACCGATTTCGCTGGTTCATCGCACCGCCCGCGCTGCTGGCAACAAAATCGCTGCCAATA
CCGGACCCAGCTCGCGCAATAGCGAAGCGCGACCATATAGCCCAAAATATCGGCGGATT
TGAATTTTCGACAACCTGCGTATAGCCCTGTAAACCCAAGACCATGCCGACAAACAGCCCCG
AAACGGCAACAATCAACACCGACAGCACACCGCGCAAAATACACTTGGCGCACGCTCAGGC
GCGGACGGACGAAAGCCGTACCGGACTTCGCCAGAATGTTTCAGCAGAAACAGCGTGATAC
TGCCGAGGGATTGAATAAGGCCGAGGGTTTTCGCCCCGACGGAACGATAAAGTTTCATAA
ATTTCTATGTGTAAAGTTCAACGGTTTCAGACGGCATCAACTCATTATCCCAACAGGTC
CTGCTGCAACGAGTTCGCGCGGATAACGGTATGCTACGGGGCGCTCTGCCAGCCCGCC
GACAACTGGCGCACCCAGCGAATCCAGTTCGCGCATTTCTGCGGCGAGCCGGAGAA
CATAATTTGCCGTGCGCAAGAAAATCACCTGATCGACGATTTCCAAAGATTTTTCAAT
GTCGTGCGTTACCATAACTACTGGTCGAACGCAAGCCCTGTTGACGCGGCTGATCAAGTG
GGCAATCAGCCCAAGCCATCGGATCGAGGCGGTAACGGCTCGTCGTACAACATAAT
TTCAGGGTCGAGCGCAATCGTGCGGGCAAGCGCGACGCGCGCGCATCCCGCCGGACAA
CTCGGACGGCATCAGGTTTTCCACACCGCGCAGACCGACCGGTTCAATTTCAACAAAAC
CAAATCCCGAATCACCGCTTCGCGCAGGCGCGTCAGTTCGCGCATCGGAAAAGCGATATT
GTCGAATACCGCACCCAGCTTAACAGCGCGCGCGTGTGGAACAATACGCCCATACGGCG
GCGGTGTTTCATACAACCTCGTCAGCCGAAAAGCCCGCAAAATCCCGTCTTCAATCAAAAC
CTGCCCCGAGTTCGGACGAATCTGTCCTGTAATCAGTCGCATCAGCGTGGTTTTCGCGCT
GCCGAAACCGCCATTACCGCAGCAAAATGCTTTCGCGGAATGCTGAAATTGATGTTCTT
CAGAATCGGCGGCTCGCCATACGCGAAGGCGACGCTTTTCATTTTCGATAAAGGGGGATGG
GCTCATGTACGGACGGACGGTAGGTTTGACGGCGTGATTTTAAGGCTTATCGGGAAGAC
GGGCAATTTTCAGACGGCATACGGACGGTAAATGTTGTGAAAATGCCGTTGTCGGCGGCG
GATTGTTTGTCTGTGGCGAAAATGTTATCTTTCAAATGATAACCTTATCAGAAAACATAT
GGAAAAGCAGAACATTTGAACAGCAGCCGTTTCGTCAATCTAGTCAAAGCGGCGCGCG
CAGCTATGTGGAGGGCAGCTACCGTTTCGATACTTGTCCAACGGCATTTCCATCCACGG
CGGCACAGTAACCGCACGGTGTGATTTTTCAGCAGCGCGCTCGCGGAACCTTATGTGTC
GTTCTGCTCTTGTCTGGAAGGCAGTTTGGACTTCGGCATCAACCGCTGCCGCTTCCAAAT
CGATGCCGACGGCGGAAGATTGTCCTAATGCTGTCGGGGAAGAAAGTCTGTTACGCGC
CTATCTTTACCGAGGCGGCAAAACGGTCAAAATGACCATTAAAGGTATGGAACAATGGCT
GCTGCGTCCGGAAATACGCGCGTTTCGCAACCGCTGCTTTACCGCGAACCGTCAGGATATG
GGATTTGGCCCCGAACCTGCGCGGCTTGGCGGCATCCTGCCTGAAAGCCGTCGCAAGGG
GCATTTGGGCGAAACATTGCGCCGCGAGGCGGACGTTGTCGGGCTGCTGTGCGACTTGTG
GGACACGGTTTTCAGACGGCATCGGGCCGCGCGGGGCAACCGGCGGAAGCAGACGCTAT
GCCGTCTGAAGACTTCAGCCGCACCCTAATGCCGCGTTTTCGCGACGGCGCACACCAAGT
CAACCGGCTGACAGACGCGCTGAACATCAGTGAAAGGACGCTGCAACGCGCTATGCGCGA
CCATTTTCGGCATTACGGCAAGCGAATGGCTGCACCAACAAATGCAGCAGCGCTCTA
TCTGTTGCAAAACGGGGGAAAGCATAGGCGAAACCGCATATTTATGCGGCTACCGCCA
CGTTTCCAGCTTTACTCAGGCATTACGGCAATATTCGGCAGCAGCGCTGCGGAAACCAA
AAAAGAAAACCGGTAAGCCGCAATTGATTTCAAACCCGAAATCCCGGTGTATAGTGGAAT
AACAAAACCAAGTACGGCGTTGCTCGCCTTAGCTCAAAGAGAACGATTCTCTAAAGTGC
TCAAGCACCAAGTGAATCGGTTCCGTAATTTGTACTGTCTGCGGCTTCGTGCGCTTGT
CCTGATTTTGTGTAATCCACTATAAAAACTTGTACGGCAATTTATTTGGGAATAAACTA
AAACTACATCTAATACGAAACTGAGAACCCGAAATGAAACAATTGGCCATGTACATCA
ACGGACGCTTTGAAAACGATTTCACGGCGAATGGCGCGACGATTGAACCGCTCCACCG
AAGAGGGCATCGCCCGCAACCCAAAGGCGGCAAGGCGGACGTTGACCGCGCGCTGCGGG
CGGCGCTGTCGGCGCAACCGGCTTGGGAGCGTCTGCCTGCGGTGCAACGCGGCGCGTATT
TGCGTAAAATCGCCCAAGGCATACGCGAAGCTGCCGACGAGCTGACCGACACCATCGTTG
CCGAAGGCGGCAAAACCAAGACTTGGCAGCGTGGAAGTCATGTTACCGCGGACTATC
TCGATTATCAGGCGGAATGGGCGCGCGCTACGAAGGCGAAATCATCCAAAGCGACCGCC
CGCGCGAAAATATTTTATGTTTCAACGTCGCGTGGGCGTAATTGCCGGCATTTTGCCGT
GGAACTTCCCTTCTTCTGATTGCCCGCAAAATGGGCCCCGCTTTGGTAACGGGCAACA
CCATCGTCGTCAAAACAGCAGCGTAACCCGATCAACTGCCACATCTTCGCCGAAATCG
TCGATGCGGTGCGACTGCGCGCAGGCGTGTCAACGTGGTGAACGTTCCCGCGCGGAAA
TCGGCAATGCTTGTCCGCCATCCGCAAGTCGATATGGTCAGCCTGACCGGCTCCGTCG
AAGCAGGCGCGCAAGTGATGGAAGCGCGCTCCGCCAACATCACCAGGTTTCGCTGGAAC
TCGGCGGCAAGCGCTGCCATCGTTTGAAGATGCGGATTGGAAGTTGCGGCGTGAAT
CCATCTTGGCTTCGCGCTGCGCAACACCGGTCAAATCTGCAACTGCGCGGAGCGCGTCT
ATGTCCACAGCAGTCTGAAAGACGCATTTCATTGAAAAATGACCGCGCGATGAAAGGCG
TGCGCTACGGCAACCTGCCGAAGCCGAAGCAGGCGCGCTGGAATGGGCGCGCTGATTG
AAGAAGCGCGCTCAAAGCGTTGCCGAAAAGTGAACGGGCAAGTCAAACAAGTGCGA
AATTGGTTTGGCGGCGAAACGCGCCGAAGGACGCGGTTATTTCTTCGAGCGGACCGTGC
TGACCGACACCGCAACAGTATGACATTATGAAAGAAGAAACCTTCGGCCCCGTGCTGC
CCGTTTCCGCTTTCGACACGCTCGACCAAGTCATCGCTTGGCAACGATTGCGAGTTTG
GTCTGACAGTTCTGATACGACTAATTTAAACGAAGCCTTCTACGTTACCGCGCGCC
TGCAATTCGGCGAAACCTACATCAACCGGAAAACCTTGAAGCGATGCAGGTTTCCACG
CCGGTTGGAAAAATCCGSTATCGGCGGCGGACGGCAACACGTTTGGGAAGATATC
TGCAACCCAAGTCGTTTATTTGGAACCGACATTTAATGCCGCTTAAAAACCCGATAG

Appendix A

-459-

AAAATGCCGTCTGAACCCGTTTTCAGGTTACAGCGGCATTTTATTGCTTCACCGGCAAT
CAGTCATGACCGAGGTTCGATGTTTTGTCTTTGTATAGTGGATTAAACAAAATCAGGACA
AGGCGGGGAAGCCGCGACAGTACAAATAGTACGGAACCGATTCACTCGGTGCTTCAGCA
CCTTAGAGAATCGTTCTCTTCGAGCTAAGGCGAGGCAACGCTGTACTGGTTTTTGTAAAT
CCGCTATATTCCGCCATCTCTAAGATTTACAGCGATACACGGGTAATTTAAGGAATGCCC
AAACCGTCATTCCCGCCACTTTTCGTCTATTCCCGCGAAAGCGGGAATCTAGAATCTCGGA
CTTTCAGATAATCTTTGAATATTGCTGTTGTTCTAAGGTCTAGATTCCCGCCTGCGCGGG
AATGACAAATCCATCCGCACGGAACCTGCACCACGTCATTCCACGAACCCACATCCCG
TCATTCCACGGAAGTGGGAATCTAGAAATAAAAAGCAACAGGCATTTATCGGAAATAAC
TGAAACCGAACAGACCTAGATTCCCGCCTGCGCGGGAATGACGGCTGCAGATGCCCGACG
GTCTTTTATAGCGGATTAACAAAATCAGGACAAGGCGACGAAGCCGACAGTACAGAT
AGTACGGAACCGATTCACTTGTAAAGAAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGC
CGTACTGGTTTTTGTTCATCCACTATACTAGGGAATTCAAATTAAGTTAGAATTATCC
CTATGAGAAAAAGCCGTCTAAGCCGGTATAAACAAAATAAACTCATTGAGCTATTTGTG
AAAGTTCAAATTTCCATTTTAAACAATAGTAAATCGAGTTTATCCTAGTTGTCCAAG
ACAACCCCTATAATAATATAATCAAATATAAAATGGGTTACATCTAAACATTACGGA
ATTTTTATTCCCTCGCCTGAATTTCTATTGTCAGATTCAAGGAGACCTCATCATGCGAAGC
ACCCCAACCTTCCCTACAAAACCTTTCAAACCGACTGCCATGGCGTTAGCTGTTGCAACA
ACACTTTCTGCTGCTTAGGCGCGGCGGAGGCGGCACTTCTGCGCCGACTTCAATGCA
GGCGGTACCGGTATCGGACGCAACAGCAGAGCAACAACAGCGAAATCAGCAGCAGTATCT
TACGCCGGTATCAAGAACGAAATGTGCAAGACAGAAGCATGCTCTGTGCCGGTCCGGAT
GACGTTGCGGTTACAGACAGGGATGCCAAAATCAATGCCCCCCCCCGAATCTGCATACC
GGAGACTTTCCAAACCCAAATGACGCATACAAGAATTTGATCAACCTCAAACCTGCAATT
GAAGCAGGCTATACAGGACGCGGGGTAGAGGTAGGTATCGTCGACACAGCGGAATCCGTC
GGCAGCATATCCTTTCCGGAAGTGTATGGCAGAAAAGAACCGGCTATAACGAAAATTAC
AAAACTATACGGCGTATATGCGGAAGGAAGCGCCTGAAGCAGGAGGCGGTAAAGACATT
GAAGCTTCTTTCCGATGAGGCGGTTATAGAGACTGAAGCAAGCCGACGGATATCCGC
CACGTAAAGAAATCGGACACATCGATTTGGTCTCCCATATTATTGGCGGGCGTCCGTG
GACGGCAGACCTGCAGGCGGTATTGCGCCCGATGCGACGCTACACATAATGAATACGAAT
GATGAACCAAGAACGAAATGATGGTTGCAGCCATCCGCAATGCATGGGTCAAGCTGGGC
GAACGTGGCGTGCAGCATCGTCAATAACAGTTTGGAAACAACATCGAGGGCAGGCACTGCC
GACCTTTTCCAAATAGCCAAATTCGGAGGAGCAGTACCGCCAAGCGTTGCTCGACTATTCC
GGCGGTGATAAAACAGACGAGGGTATCCGCCTGATGCAACAGAGCGATTACGGCAACCTG
TCCTACACATCCGTAATAAACAACATGCTTTTCATCTTTTCGACAGGCAATGACGCACAA
GCTCAGCCCAACACATATGCCCTATTGCCATTTTATGAAAAGACGCTCAAAAAGGCATT
ATCACAGTCGCGAGCGTAGACCGCAGTGGAGAAAAGTTCAAACGGGAAATGTATGGAGAA
CCGGGTACAGAACCGCTTGAGTATGGCTCCAACCATTCGGAATTACTGCCATGTGGTGC
CTGTCCGGCAGCCATGAAGCAAGCGTCCGTTTACCCGTACAAAACCCGATTCAAATTGCC
GGAACATCCTTTCCGCAACCATCGTAACCGGCACGGCGGCTCTGCTGCTCGAGAAATAC
CCGTGGATGAGCAACGCAACCTGCGTACCACGTTGCTGACGACGGCTCAGGACATCGGT
GCAGTCGGCGTGACAGCAAGTTTCGGCTGCGGACTGCTGGATGCGGGTAAGGCCATGAAC
GGACCCGCGTCTTTCCGTTCCGGTTCGGCGACTTTACCGCCGATACGAAAGGTACATCCGATATT
GCCTACTCCTTCCGTAACGACATTTACGGCACGGGCGGCTGATCAAAAAGGCGGCGAGC
CAACTGCAACTGCGACGGCAACAACACCTATACGGGCAAAACCATTTATCGAAGGCGGTTCG
CTGGTGTGTACGGCAACAACAATCGGATATGCGCGTCGAAACCAAGGTGCGCTGATT
TATAACGGGGCGCATCCGGCGGCGAGCCTGAACAGCGACGGCATTTGTCTATCTGGCAGAT
ACCGACCAATCCGGCGCAACGAAACCGTACACATCAAAGGCAGTCTGCAGCTGGACGGC
AAAGGTACGCTGTACACAGCTTTGGGCAAACTGCTGAAAGTGGACGGTACGGCGAATTATC
GGCGGCAAGCTGTACATGTCGGCACGCGGCAAGGGGGCAGGCTATCTCAACAGTACCGGA
CGACGTGTTCCCTTCTGAGTGCCGCCAAAATCGGGCAGGATTATCTTTCTTCAAAAAC
ATCGAAACCGACGGCGGCTGCTGGCTTCCCTCGACAGCGTCGAAAAAACAGCGGGCAGT
GAAGGCGACACGCTGTCTATTATGTCCGTCGCGGCAATGCGGCACGGACTGCTTCGGCA
GCGGCACATTCCGCGCCCGCGGCTCTGAACACGCGCTAGAACAGGGCGGCGCAATCTG
GAAAACCTGATGGTCAACTGGATGCCTCCGAATCATCCGAACACCCGAGACGGTTGAA
ACTGCGGCAGCCGACCGCAGATATGCCGGGCATCCGCCCTACGGCGCAACTTTCCGC
GCAGCGGCAGCCGTACAGCATGCGAATGCCGCGACGGGTGTACGCATCTTCAACAGTCTC
GCCGCTACCGTCTATGCCGACAGTACCGCGCCCATGCCGATATGCAGGGACGCCCGCTG
AAAGCCGTATCGGACGGGTTGGACCACAACGGCACGGGTCTGCGCGTCATCGCGCAAAAC
CAACAGGACGGTGAACGTGGGAACAGGGCGGTGTTGAAGGCAAAATGCGCGGCAGTACC
CAAACCGTCGGCATTTGCCGCAAAACCGGCGAAAATACGACAGCAGCCGCCACACTGGGC
ATGGGACGACGACATGGAGCGAAAACAGTGAATGCAAAAACCGACAGCATTAGTCTG
TTTGCAGGCATACGGCACGATGCGGGCGATATCGGCTATCTCAAAGGCCTGTTCTCTTAC
GGACGCTACAAAACAGCATCAGCCGACGACCGGTGCGGACGAACATGCGGAAGGCAGC
GTCAACGGCACGCTGATGCAGCTGGGCGCACTGGGCGGTGTCAACGTTCCGTTTGGCGCA
ACGGGAGATTGTAGCGGTGCAAGGCGGTCTGCGCTACGACCTGCTCAAACAGGATGCATT
GCCGAAAAGGCAGTGTCTTTGGGCTGGAGCGGCAACAGCCTCACTGAAGGCAGCTGGTC
GGACTCGCGGGTCTGAAGCTGTGCAACCCCTGAGCGATAAAGCCGTCTGTTTGAACG
GCGGGCGTGAACGCGCACTGAACGGACGCACTACACGGTAACGGGCGGCTTACCGGC
GCGACTGCAGCAACCGGCAAGACGGGGCACGCAATATGCCGCACACCCGCTCTGGTTGCC
GGCCTGGGCGCGGATGTGCAATTCGGCAACGGCTGGAACGGCTTGGCACGTTACAGCTAC
GCCGTTTCAAACAGTACGGCAACACAGCGGACGAGTCCGGTAGGCTACCGGTTCTGA
CGGACGGAAGACAGACGCGCAAGATCACGGTCTTTGCGGCTGTTTCTTATGAAAAGA
AAACCCATTTCGAATTGCTGCTTCTATTGTTTCAAGACTTCTTCAAAGATTCCGGCATT
AATCAGATGTATAGCGGATTAACAAAATCAGGACAAGGCGGCGAAGCCGCGGACAGTAC
AAATAGTACGGAACCGATTCACTCGGTGCTTACGACCTTAGAGAATCGTTCTCTTTGAG

Appendix A

-460-

CTAAGGCGAGGCAACGCCGTACTGGTTTTTGTAAATCCGCTATATTCCACCATCTCTAAG
ATTTACAGCGATACACGGGTGATTAAAGGAATGCCGAACCGTCATTCCCGCCACTTTCC
GTCATTTCCCGCGAAAGCGGAATCTAGAATCTCGACTTTTACAGATAATCTTTGAATATTG
CTGTTGTTCTAAGGTCTAGATTCCCGCCTGCGCGGGAATGACGAATCCATCCGCACGGAA
ACCTGCACACAGTCATTCCACGAACCCACATCCCGTCATTCCACGAAAGTGGGAATCT
AGAAATGAAAGCAACAGGCATTTATCGGAAATACTGAAACCGAACAGACTAGATTCCC
GCCTGCGCGGGAATGACGGCTGCAGATGCCCGACGGTCTTTATAGCGGATTAACAAAAAT
CAGGACAAGGCGGCGAAGACGCAGACAGTACAGATAGTACGAAACCGATTCACTCGGTGC
TTCAGACCTTAGAGAATCGTTCTCTTCGAGCTAAGGCGAGGCACCGCTGTACTGGTTTT
TGTTAAATCCACTATACTTGGAGCTGGTCTTGCTTTTCGCCCTAATTTACGTTTTCAAACG
GTTGCAGCTGGTGGTCTGCCATAAAGGTCTCCTTATTGTATTTCAGGTTGGAAATCGGAA
TTTGTTTTACAAATTTTACACCTTCGCCCCCGCTTCTCTACATAAAATTACATTTTGCC
GATATTTGCCGAATTTGTCTGAAAAATATGTGTAATAAGGGCGGTATAATCAAAACATTGTC
CCCGGATTGCCATTGCCTTATTTTCGCCCTGTTTGACGATGCCGTAAGCGGCCGCGCAAAAC
GCTATCAAAATCATGTGGAAGCGGTTTTTTCGGTCCCGAAGAACGTCGATGCTTTGGACG
GCGCGCTGCAATCGGGCTGGCAAAAAGGGCTGCATTCCGGTGTGTTGTCAGACTACGGAT
TCGGTTTTGCGCGCTGACGGGGTTGAGTCCGAACGCGCGGCAATCTGCCCCGCACTGGT
TTGCCAACTGCGCCGACATCGATGCCGAAAGCTGGCTTGCCCGACACTCAGACGGCCTCC
CCGCGCGCATTTCCACGCGCAACCCCTCCGTATCCGAAACCGATTACCTCGACCGCATCC
GCCAAATCCACGAAGCCATCCGGCGCGGACACCTATCAAAATCAACTACACACCCGCC
TGCACCTGCAAGCCTACGGCAATCCCGTCAGCCTTACCGCCGCTGCGCCAGCCGCTCC
CCTATGCCGTCTTGTCCCACTGCCGATGCGGAGGGGCAATCCCGGTGGACGCTGTGTT
TCTCGCCGAATCTTCTCAAAATCGGTTCCGACGGCACCATCAGCACCGAACCGATGA
AAGGACCGCGCGGATTTTGGGCGACGGACAAGACGAACGCGCGCGCGAGTTGCAAG
CAGACCCGAAAAACCGCGCGGAAACGTCATGATTGTGATTTGCTGCGTAACGATCTCG
GCAAAATCGCCCAAAACCGGCACAGTATGCGTACCGGAACCGTTTAAAGTATCGCGTTTCG
GCAGCGTTTGGCAGATGACGACACCATCCAAGCCCAAGCCTTGCCGCACACCTCGTTCCG
CCGACATCTTCCGCGCCCTTCCCTGCGGCAGCATACCGGCGCGGCCAAAAAATGA
GTATGCAGATTATCGAATCGCTCGAAGCCGAAGCGCGCGACTTTATACGGGCGAGCATCG
GCTATTTGAACCCGTGTTCCGGCGGCTTGGGGTTTGAAGGACGTTCAACGTCGTTATCC
GCACCTTGTCGCTGACGCGGCTTTCAGACGGCATTTATCAAGCGGTGACGGTGTGCGTT
CCGGCATCGTCATCGACAGCGACCCCGCGCCGAATATCGCGAATCGCGCTGGAAAGCCC
GTTTCTCAACGAATTTGCCGCCGACTTCGGCATTTTGAACCCCTGCGCGCGGAAACG
GACGCTGCACCCGTGCTCGCGCGCCACCTATGCCGTCTGAAACCTCGGCCCAAGCCCTCA
ACCTGCCCTTGCAGCGGCTGCGAAATCAAAATCAAAATACATTGCCGACTTGCCCG
ATGGCGCGTTCCGCGTCAAGCCCTGCTCGCTTCAGACGGCATCAGCCTGTCCGCGCGCG
TTTTAAACCGCTTGACCGACAACACCGCGTCATCTTTCCCGCCGCTCTGCCCGCAC
AAAACCTACCTGCGCGCTTCAAAACCACTGCGCGCGCTTTCGACCAAGCGTGGCAAA
CCGCGGAAACACAGGCGGCTTCGACAGCCTGTTTTCAATTACAGACGGCATCTGTCTCG
AAGGCGCGAGAAGCAACGCTTTCATCAAAACATCGCGGACAAATGGCTCACACCCCTCTTAG
ATTTAGACATTTTAAACGGGCATAATGCGCCAAGCCGTATTGGACGAACCGCAAAATATT
TGCAAAACAAATCAAGTAATCGAAACACACATCACACAAAAACACTGCAAGAAGCCGAAG
AAATCCGCTCTCCAACGCTTGCAGCGGCTATTGCGCGCGCCCTGCGTGAACGCGCA
AAAATGCCGTCCGAACCTGTTTCCAAAGTTGCGACGGCATATCCACCATCAAAACCG
CCAATCCGCGCACACAAACACCTCGCTGTGCGGCGTTTCGCATACGGCACATTACTTTC
CGTCTCGCGAAACGATAATTCAACGCGCGCACGATACCTTTGTACGACAACCTGTCTGTG
GCTCAAGCCAGCGAGACATTCATTGCGGCTGCGTTCGCGCTCTGTGAGAAAGCCGC
AATGCCCTTATAGTTGCGCGGGCATAAGACGCGGAAACCGCACTTTCAACCGGCCAA
CTGCCGCACTCTGCGCCCAACCGGCATAAACACCGTTGCGCGGTAGGCGGCATTATT
GACCGCGCGCCACCGTTTCGCGTTTCGCGCACAAACCGCACAACTGCCAGCGCGCGAA
CACAGTTGCGGATTTCGCGCAACGTTTTGCGGACGAAACATAAAACCGCTCTGCTGCC
GTTATTGTATTCCGCGCTATCTGTTGCGGCTAGCGTTGGCGGTAATGTTCCAGCGCGAC
CGAAATTTGCCATCCCGGTTTGGCGGTAAGTATGGGACAGCTGCACGCCGACTCCGTG
CGCCAGCATATACGGCGGAGGCGCGGCTGTTTACCCGTTTGTTCGTCATCAAGCC
GTCGCTGCCCGACAACCTGCACCTGATAAAACGGCAAAATCCCGCGCTCTGCGGTGCATT
TTTATACTGCCAACCCAAATACGCCCTGCCGAACCGTCATCATAAGCTGATTTTTTACT
GAAATAATAGCTCGTCCCGCGATATTGGAACGGAAACAAATAATGATTATCTGCCAA
CGGCGTCAGCTTTTCGCGCTCGATTTCATAATTCAACCTGCGCGCGCTCCGCGCGGCT
GACACTGCATATCTGCCGCGCTCCGTTTTGCGGCAATATTGCGGCGCGGCATTATTGGC
ATTTCTATTGACCGCGGACTGATGCCGCGGAAAAACCGCAGCCGTCAGCCCTCCGT
TTTTTCCGAAAAACGCCACATTTTCAAAACCGGTGCCGCAAAATCCAATTTGCCGC
CTCCGCAAAATGCTTTCTGCGGCTTCAGCGGAAATCGTCAAACTCCGCGCGCGCAA
ATCCAGCAAAATCCGCTCGTCTGCGCATTTTCCCGTGCACTCCCGATACCGCGCCAC
CGCCTCCGCGCGCTTCCCGCAATTTGCCAGCAAGCCCGCGCGCTGCCGTACAAAAAC
CGGCTCATAATCCGCGAGCTTGGCATACAAATCCGCCAACGAAGCGATTAAATCCGCGT
ATTGCCGTTGAGCGCTGCGCAAACTATGTTCCAACATTTTCGGATGCGCCAAACAAAA
ATCCCGCTCAACACGCGCGGGGATCATTTCAACTTTCCAATCTGATTCCGCGCCACTT
ATCCGACACCGAGCGCTGCACCTGCAACAAATGCCTTGTATCCAAATCGCGGGCGCATC
CGCCCATAGGCGGCGAGAAACACCTGCCGCACACCAAAACCAAAAAAGCCGTATCTGAA
ATACAACATACCTGTCTATTACCTTTCTGGCAACACGCGCGCGAAGCACGTCAAACCA
TCCGAAAAACAGGCAAAACCCGTGAAACCGGCTTTGCCGCTGAAAGCAGGCAAAACAA
AAACCGCGCGGATTTTCAAGGGCGGATTTCAATTTATAGTGGATTAAACAAAAATCA
GGACAAGGCGACGAAGCCGAGACAGTACAAATAGTACGGAACCGATTCACTCGTGCTTA
AGCACCTTAGAGATCGTTCTCTTTGAGCTGAGGCGAGGCAACGCCGTACTGGTTTTGT
TAATCCACTATAACAGCAACCCGTGTCGCCGTCAATCCCGCAAAAGCGGGAATGACGAAGC

Appendix A

-461-

TATCCGCACAGAAACCTGCACCACGTCATTCCCACGAAAGTGGGAATCCAGAACGTAAAA
TCTGAAGAAACCGTTTATCCGATACGTTTCCGCACCGACAGACCTAGATTCCCGCTTTC
GCGGGAATGACCGCGGAAGGTTGCTGTTTTTCCGATAAAATTCCTGCCGCTCTTCGTTTT
TGGGATGGCGGGAATAAAACAAAGCGCGGTATCAAAAAACAAAATGCAAGAACGG
CGTTGGCAATTTTAAAGTTTGCAGCTTAGCCGCACTTATTCGCAAAAAAACCGCACGGC
GTTGACCGTGCGGTTTTTATCTGAAAGCTTCAGACGGCATTGCTTACATCATGCCGCCC
ATACCACCCATGCCGCCATATCAGGCACAGCCGTTTGTCTTCGGGGATTTCAGCGATC
ATGCAATCAGTGGTCAGCATCAAGCCGGCGATAGATGCGGCGTGTTCAGCGCAGAACGG
GTTACTTTGGCGGGGTCGAGTACGCCCATTTTCGATCATATCGCCGCTATTCGCCGCTGCCA
GCGTTGTAACCGTAGTTGCCTTTTGCTTCCAATACTTTGTTCAACAACACGCTGGGTTCG
CCGCTTGCCTTGGCAACGATTGCGCGAGCGGAGACTCAACGGCGCGCAAGACGATTGT
ACGCCTCGCTCTTGGTCGGCATTCGCCGTGTGCAGGTTTTCCAAAGCAGCACGGGCACGC
AACAGGGCTACGCCCGCGCTGCAACCACGCTTCTTCAACGGCTGCGCGGGTAGCGTGC
AGCGCGTCTTCCACGCGGTCTTTTTTCTCTTTCATTTCGACTTCGGTCGCGGCACCGACT
TTGATGACTGCCACGCGCTGCCAATTTAGCCACGCGCTTTCGAGTTTTTCTTTGTGCG
TAATCGCTGGTTGCGGTTTCGATTGTTGGCGGATTTCGGCAACACGCGCTTCGATTGG
GCTGCGTCGCCAAAGCGCTCGATGATGGTGGTGTCTTCTTACCGATTTCGATGCGTTTG
GCTTGACCCAAGTCGTCCAAAGTCGCTTTTCCAAAGACAGACCGACTTCTTCGGAATC
ACCACGCCCGCGTCAGGATGGCGATGCTTTCGCAACATCGCTTTCGCGCGGTGCGCGAAG
CCAGGGCTTTAGCGGCAACGGTTTTTCAGGATGCTCGGATGTTGTTACAGCCAAAGTC
GCCAAGGCTTCGCTTCTACGCTTTCAGCGATAATCAACAGCGGACGGCTGGCTTTTGCC
ACTTGTTCACAAACAGGCAGCAGGTGCGCGGATGTTGCTGATTTTTTGTGCAACAACAT
ACAAACGGATTTCACAAAGCAGCATTTGTTTTTCCGCATCGTTGATGAAGTAAGGAGAC
AGGTAGCCCGCGGTGCAACTGCATACCTTCAACTACGTCCAGCTCGTTTTCCAAAGACTTG
CCGTCTTCAACGGTAATCAGCCCTTCTTTGCCGACTTTTTCCATCGCTTCGGCGATAATC
GCGCCGACTTGTTCGTCGGAGTTGGCGGAAATAGAGCCGACTTGGCGGATTCTTTAGAA
GTGTGCGAAGTTTTGGCGATTGTTTTTCAGTTCGTCAACCAAGCGCGACGCGTTTTATCG
ATACCGCGTTTCAGGTGCGTCGGATTACATCTGCGGTAACATATTTACATACCTTCGGCA
ACGATGATTGCGCCAGTACGGTGGCGGTAGTCGTACCGTCGCTGCCACGTCGTTGGTT
TTGGACGCAACTTCTTTCACCATTTGCGCGCCCATATTTTCAAACCTGTCTTTCAGTTTCG
ATTTCTTTGGCGACGTTTACGCCGTCTTTGGTGTGTCGCGGCGCGGAATGCGCGGTCA
ACGACTACGTTGCGACCTTTGGGGCCCAAGTTACGCGGACGGCGTTTGCCAGAATGTTTC
ACGCGCTTTACCATTTTTTGACGGACTTCATTGCCGAACGTACGCTCTTTGCTGCCATT
TCAATTTCCAAAATCACTAAACCTGTCTGATAAAACCGTTTATGCCGTCTGAAGGCGG
TTTGCGGTTTCAGACGGCATCGTGTCCGTATTTATTTTCAACGATGCCGAAATATCTT
CTTCGCGCATTTACCAACAGCTCTTCGCGCGCGGCTTTACGGTTTGCGCGCTGTATTGCG
CGAAGATGATTTTTGTCGCGGACTTGACATCCAGCGGACGGCGGCTGCCGTCTTACCGCA
TTTTGCCCGCGCCACGGCGATGACTTCGCCCATATCGGGTTTTTCGGCGGCGCACCCG
GCAAAACGATGCCCGATGCGGTTTTTCTTCAGCTTCCAAAGCGTTTGACGACAACGCGGT
CGTGTAAGGACGGATGGTCATATTTATGCTCCGATAAAATAGTTTGAACAAATCATCT
GCCGCAACGCTTCAGCGATTTGAAGTGGAACCGGACAGCCGTCAAGCAGCTGCCCGTA
TAAGTCGGCAAAATTAGGGTGTGTGCGGGTAAATTCAGTGAGGCGGAAAAAATTTATTT
CCGCGCTTTTTTATAGTGGACTAAATTTAAGGGGCTGTACTAGATTAGCAGATATGTTAC
CCTCGAAATATGAAGATAACGCACCTGCAAAATTAAGAAAAAAGTACAGAAAGAACTGCTC
CGTTTTTTGTACTGGAAGTTACCGCCCGTTCTGCCCGCGATATTTGGGTATCCATCCCA
ATTCGGGACGACTGTTCTACCGTAAATCCGCACGCTTATCAACCATCATTTAGCCTTGG
CTGCCGATGAGGTTTTTGAGGGCCCTGTGAGCCGGACGAAAGCGATTTCGGCGGACGGC
GTAAGGTAGACGTTGGTCGCGGTGACGAGGAAAGTGGTTGTCTTCGGCATTCGAAAC
GCAACGGACGGGTCTATACGTTGTGGTGATAATGCCAAGCTCTGAACGTTACTCCCTG
TCATCAAGAAGAAATCATGCCGGACAGTATGTTTATACCGATAGTCTGAGCAGCTGCG
ACAAGTTGAGCGTTGAGCGTTTTCATTTATACCGCATCAACCATTCGAAGGAATTTGCAG
ACCGTCAGAACCATTAACGGCATTGAGAATTTTGAATCAGGCAAAACGTGTCTTGC
GAAAATACAATGAATCGATCGTAAATCTTCCCGCTGTTCTTGAAAGAATGCGAATTC
GATTTAACTTCGGCACACCGTCTCAACAGCTTAAATCCTGCGGGATTGGTGTGGGATT
AGGGCTAATCTAGTACAGCCCTAAAATTTTTCGTTTTCAAGCCTTACCGCTTGCCATC
AGCGTTAAATTTTTTACGATAAGCACATAGATTGTAAACATCGGCCACAAGCCGGTTT
GTTTTTTCAGAAGACATTATCCCTGTCAGACGCTATTTCTATATATTTCCCTATATATGG
CTTGTTTTTAATAAATAATTCAAGAGGTATCAACGTGTCTGATTCCAAGACGAAAGAACG
CGCCACATTCGGCACGCGCGCGCTTTATGATTGCCGCCATCGGGTCCGCGCTCGGCTT
GGGCAATATTTGGCGTTTTCCCTATATTGCTTTTGAACGGCGCGCGCGCTTCATCCT
GCCATATCTGGTCGCGCTTCTGACGCGGGCATCCCGCTGCTGCTGCTCGATTATGCCAT
CGGCCACCGTTACCGTGGTTCTGCGCCCTTGGCTTTCCGCCGCTCGGACGATGGTTTGA
GCCGGTTCGGCTGGTGAACGTGATGACCAATATCGTCATCTGCATCTATTACGCGGTAA
TATCGGTTGGGCGGCAAGCTATACCTATTATTCGGTCAACGCCGCTGGGGTGGCGATCC
GCAGGTTTTTTTCTTAAAGGACTTCTGCAATGGCGGGCCCGGAAGCCTTGGGTTTGA
TTTTGTGCGCAAGTGCAGCGTCTTTGGCGGGCGTGTGGGTTTTTACCGCGCCATTAT
GGCGTTGGGCGTCAAAAGGGCGTGGCGCGCGCTCGTCTGTTTTATGCCGTGCTTTT
GTGATGTTTTTGTATGTTGCTCGGATTTCACTAACCTGCGGGGTGCGGCAAGGGCTT
GGACGCTGTTTTACGCCGACTGGTCGAAACTCGCCGATTCCAAGTCTGGGTGGCGGC
ATACGGGCGAGTTTTCTTTTCGCTTTCATCTGCTTCGGCATTATGTTTACCTATTCTTC
TTATTTGAAGAAAAACGACTTGGGCGGAACGGGCTGGTGGTTCGCTTTTGCCAACAG
CAGCTTTGAAGTGTGCGGGCATCGGCGTGTGTCGCGATTGGGCTTTATGGCGCAGGC
GGGCGGTAAGGCGGTCAACGAGGTTGCCCTCAGGCGGCATCGGTTTGGCGTTTTATCGCCTT
TCCGACCATTAACACAGGCACCGATGGGCTGGCTGATCGGCATATGTTTTTTCGGTTT
GCTGGTGTTCGCCGCGTTACGTCGATGATTTCCATCCTTGAAGTGATTGTGGCGGCGAT

Appendix A

-462-

TCAGGACAAGCTGAACATCGGGCGCGTCAACGCCACGCTGCTGGTCTGCATTCCGATGGG
CATTGTTTCCACGCTGCTGTTCCGTACGGCGACGGGGCTGCCGGTTTGGACGTGATGGA
CAAATTCGTCAACACCTAGCGCATTTGTTGCCGCCGGCTTTGTTTATGTTGCCGCATCAT
CATCAGCGGCAGGCTGCCGGAATTACGCAAGCACCTGAACGCTTTGTCTCCATCCGCAT
CGGCGGCTTGTGTGACGCTGCTGCGTCTGTTACCGTCTGTATGCTCGGCTATATGCTGTT
TAAAGATACCAGCGGCTGATGGAGAAAAATTACGAAGGTTATCCGGATGGTTTCTCAG
TATTTTCGGCTGGGGGATGTCGGCGGCGTTGGTCTGTTTCGGGCTGCTGCTGCTGCTGCT
GCCTTGGAACACGGTTCAGGATTTCAACGTCAAAGACGAACACGAACATGAACAAGGAGA
AGAAAAATGAGTACTTCCGCCATTGTGATGATGATTGTCTCAATCGTGATAATCTGGGGA
GGGCTGCTGCTTTCCCTGTTAAGGCTGCCGAACGAGTAAGCCTTTAGAGCGTTAAAAATG
CCGTCTGAACCGCTTCAGACGGCATTTTGTATGTTTCGGCTTGCAGGCAGGCGAGTTCGTTT
GCCATTTGCTGTTCCAAAGTTTTCGGCGCGCGGATGAGTCGGTATTCGTTGCCGTCCACC
AACACCTCTGCCGCACGGTTGCGCGCGTTGTAATTGCTCGCCATCTGGCCCCGTATGCG
CCGCGCTGCGGATAAGCAGCAATCCCTTCTTCGCGAGGCGATGGTGGGCTTTTGGCG
AGGAAGTCGCGGTTTTCGCAATCGGACCGACGATGTTGGCGGTACGCGTCCGCGATGCT
TTGGTTTCGACCGCCTCGATGTGATGATAGGCATCATAAAGCGCGGGCGCATCAATCG
TTCATCGCCGATCGACCATCACAAAGTTTCTCTTCGCGGTATTGACAAACTCGACG
CGTGTACAGCGCAACCTGCGTTGCCGACAGGCTGCGGCCGGCTCAAGAAATGAGTTTC
AGACGGCGTGTGCGCATGATTTTGAACGGCTTGGGCATACGCGCCCAATCAGGCACA
TTTTCGTCTTGGTAAACATGCCGACGCGCGCCTAAGTCTAAATGTTCCAAACAAATG
CCTTCGGCGGCAAGCGCTCAACCAAAATCAAAATGCGCTCGCAGGCTTCGACAGCGGG
CTTAAGTCGGTCAGTTGCGAACCGATGTGGCAGTCGATGCCGATGATTTTCAAATGGGC
TGTGTGCGCGCATAGTGGTAGGCTTCGAGCGCGTTCGGCGTAGGCGATGCCGAATTTGTG
GCTTTCAGACCTGTGAGATGTAGGGATGGGTTTTTGCATCGACATCGGGGTGTGATGCG
AGGGAGACGGGCGGTTTTTACCACAACTGTCGGCACTTTCTGAATACGGTCGATTTTCG
GGGATGCTTTCCATATTGAAGCATTTTACGCGCTGATTCAGCGCAACTCGATTTCCGCG
TCGCTTTTGCCTACGCCCTGAAATATGGTTTTTGGCGCGTCGCCGCTGCCGCAAAACG
CGTGCCAATTCGCCCGCGACACAATGTCAAACCGCTGCCAGCGAGGCGAAGTGTGTTG
ATAATGCTCAGATTGCCGTTTGCCTTGACGGCGTAACAGACGAGCGGGTTCAAAGCGGCA
AACCGGCTTGGTAGTGTCAAATGCTTCGGTCAGCGCGGATTGGCTGTACACATAAAGC
GGTGTGCCGAATGCTTCAGCAAGCGGGGGTAGGGGACTTGTTCGCAAAATAGGGTCATG
TTTTCGTTTTTCATTTTGGGTTTTGTGGAGCGGATTGCGGTTTGCTTTGAAGTTGCAAAAC
GGTTTGGATTACGCCGAACCGCGCTTGTGCGCTTCTTTGGGCGAGTAGAGGTGCGCTTT
GTAACCGCAGGCGAGAGCAGGAGGGCGGTTGCCGCCGCAAAAAATACGCCGTATTTTCAT
CGGTAACTTCCCTTCATAAGCGCGAATGTGGCAAGATTCCGCATCTTAAACAAAAACAC
GCAAAAAAGCTATGATGACCGAAAGCGAGTTATCCGCGCGAGCGAAGCATTTTGAACA
CATCGAAGACCAATCGACGAAACCGCTGGGATTTCGACTGCCGTTTTCGGGAAACGT
CCTGACCATCGAAGCGGAGACGGCGCCCAATCATCGTCAACCGCCACACGCCCAATCA
GGAATTTGGATTGCCGCAAAAGCGCGCGCTACCATTTCCGCCGAGCAAAACGGCAATG
GCTGGCAACGCGCGACGCGGATTTTATGACGTTTTAAACGAAGCCCTGAGCGCGGC
TTCGGGCGAAGCGGTGGAATTCGGAATTGTGATTGGGTGTTATCACGGAAGAAAAA
ATGAACACACGCTCCCTTTTATTTCCGACTGATATTTATCGCGATTATCGCTATACTTGCT
AACTATTAGGAAACACTGATTTTCCCATCATTTATCATATCAGTGCTTTAATTATGCT
ATCTTGTGGGAATGGCAATCGCAATACCATTTATCCGCAATTTTCGACACAAGTGGA
AAAGCGTTTTGTTTGCCAAAGGCGCGCTTCTTCGCACTGGCATTGTGTTGTATGGTTTT
CGCTCACTTTTGGCGATATTGCCGATGTAGGATTAAATGCGGTTGTCACTGATGCAATC
ATGCTAATTTCAACCTTCTTTTACCAGCTTTTAGGCATTGCTTATCTAAAAATGGAT
AAACAATTGGTTTTATCTCACTGGGGCAGGTGCGAGCATTTGCGGTGCGGCAGCAGTGAT
GCGGCAGAGCCTGTACTAAGCAGAATCCATAAAGTTTCACTGGCGATTGCCGTAGTG
GTCATTTTCGGGACGCTTGTCTATTTTACTTACCCCTTGTCTACAGTGGTCACAACAT
TTAATTACGCCCATCAATTCGGTATTTATGTTGGTTCTAGTGATACGAAAGTGGCTCAA
GTGTATGCGATTGGGAAAAATATTGATCCTATCGTGGCGAATACTGCCGTCATTTCCAAA
ATGATCCGAGTGATGATGCTCGCCCCCTTTTATTAATGCTTCTTGGTTATTAACAGCT
AGTAATGGAGTATCAGAAAAATACATCACAAAAATTACAATTCCTTGGTTTGTGTACTT
TTTATTGGTTGCTGCTATTTTAAATCTTTTGGATTATTAACAAAAGAACTCGTGAAATTA
TTCGTTGAAATCGATTCTTCTTATTAATTCATCAATGGCTGCGCTTGGCTTAACGACG
CAAGCAAGCGCAATCAAAAAGGCGAGGATTAACCGGTTGTTTTAGGAATACTAATCTAT
TTATGGCTAGTGGTTGGTGATTTTGTAGTGAATGGAATATCAAAATTAATATAAAAT
TCACTAAAGAGAGCGTTACCCAATGGCACAATTACCGCTATATCTGACTTCTGAAATCAA
AGACTTTTACTGTCGGCACGCTTAAAGTTTGAAGTATTTTCCAAACATATCCCTTATGG
TGTCGCTTTTGAAGACGACGCGGACACAGGCTACTTCTATGCGGCTTCGCAAGACGGGAT
TTTAGATGCCTTGACATCTATAATGTGCAAGATGTATCCGACAAACATATCCCCAATCA
TGCTTTGATTTTATGGGATGATGCCTGCACCATAGCCGATGTGTATCAACGACTACAT
TCATGCCGCTATGATTTTGTGCAACAGGCGAGGATTTGCCGCAACGGCTTCCCTGAAGC
AGCGCGGCAATGGGTGAAGTCAAAAGCCGCTTGGATGATGAATGTGGGACAAAT
CCTATCCCGAAATCTACATAACCTCACAAAAGGATACCAAAATGCCCTACTAGACAG
TTTCAAAGTCGATCACACCGGATGATGCCCCCGGCTACGCGTGGCGAAAAACATGAC
TACGCCCAAAGGCGACACCATTAACGCTGTTTGACCTGCGCTTTTGGCTTCCCAACAAAGA
AATCCTGCCTGGAAGGCGATACACAGCTGGAGCATTTGTTTCGAGGTTTTATGCGCGA
CCACTTGACGGCAACGGCGTGGAAATCATCGACATTTCCCGATGGGCTGCCGCACCGG
TTTTTATATGAGTCTTATCGGCACGCTTCCGAACAGCAGGTGCGCGATGCGTGGCTGGC
TTCGATGCGAGTGTGTTTGAATGTCAAAGACCAAGCAAAATCCCGAGTTGAACGAATA
CCAATGCGGCATTTATCAATGCACTCGCTCGCCGAAGCGCAGCAATCGCGCAAAACGT
GTTGGCGCGCAAGTGGCGGTGAACAAAAATGAAGAGCTGACGCTGGATGAAGGGCTGCT
GAACGCCTAATCCGCCAAAAATGCCGTCTGAACAAGGGTTTTCAGACGGCATTTGCCCTTTT

Appendix A

-463-

CCGTTATAATCCGGGGTGTCCGGGGGCGGGTTTTAAGCCGGCATCGTCCCTCCCTATTT
TTTTCTGTCCCTTATCGGTTTTAAGCGGGTTTTTATGTCCAACAGACCTACACTCCTCC
TCGTTGACGGATCGTCTACCTTACCCTGCGTATCACGGATGGGGCAAAACCTGACCG
CCCCCGACGGCGCGCCGACGGGTGCGCTGTATGGTGTATTGAATATGTTGCGCCGTTTGC
GGTCGGAATATCCGCACGATTATTGCGCGGTGGTTTTGATGCGAAAGGCAAAATTTCC
GCCATCAAAATGTTTGAAGAATACAAGGCGACGCGCCCGCCGATGCCCGACGATTGCGCC
CGCAGGCGGAAGCACTGCCGATTAGTGCCTGACAGGCTGGCCGGTATTGGTATTG
GGCAGGTGGAGGCGGACGATGTATCGGCACGCTGGCGAAACAGGGGGCGGAACATGGTT
TGCGAGTCATTGTTTCGACCGCGGATAAGGACATGGCGCAGTTGGTGGATGAGCGCGTTA
CGCTGGTGAACACGATGAGCAGCGAAACGCTGGACATTGAAGGCGTGAAGGCAAAATTCG
GCGTGCGCCCGACCAATCCGCGATTATCTCGCGCTGATGGGCGACAAGTGACAAACG
TGCCGGGCGTGGAAAAATGCGGCCGAAACGCGGTGAAATGGCTGGAAGCCTACGGTT
CGCTGGTGGTGTGATGGAACACGCTTCGGAATCAAGGCAAAAGTGGGCGAAACCTGC
AAGCCGCGCTGCCCCAAGTCCGCTGTCTGATGATTGGTCAGGATTAAACCGATGTGG
ACTTGACGCGCGAGCTTTCAGACGCGATCGAAAGCCTGCGCGTACTACGCCGAAATGGG
CGCAGCTGGTTGCGATTTCAACGCTGGGGCTTCGCGACCTGGCTGAAAGAAGCGGAAT
CAAAATGAATACCGGCTCGACCGATGATTGTTTCGGCAGCGACGATCGCGAGCAGG
CGGCTTTGAATGCGGAATGCCGTTTGAACCAAGCCGAAAGCCACCGCCCCCGAAA
AACTGGATTATCAAGCCGTACCACCGAAGCGCAGTTTGGCGCTTGTGGACAACTGT
CGCGGGCGGACACAATCGGCATCGATACGGAACACGTCATTAGACGCGATGAACGCT
CGCTGGTCCGATCAGCATCGCTTCCAAGCAGGCGAAGCGGTTTACATCCCCGTAGGAC
ACAGCCTGACCGCGCGCTGAACAGCTTGATTTACAAGAGCTATTAGGCCGTCTGAAAC
CGCATTTGGGAACCCCGCCCTAAAAAATCGGGCAAAACCTCAAATACGACCAACACG
TTTTCGCCCACTACGGCTGCGCCCTGAACGGCATTCGCGGCGACGCCATGCTCGCTTCT
ACATCATCGAGAGCCATCTCGGACACGGCTTGGACGAATTGTCCGACGCTGGCTCGGCT
TGGAACCATTAACCTACGAATCGCTGTGCGGCAAGGCGCGAAGCAAAATCGGTTTTGCCG
ATGTCGCCATCGGGCAGCGGACCGAATACGCCGCCAAGACGCGGATTTCCGCTGCGCC
TCGAAGCGCACCTGCGCGCGCAATGGACGAAAAACAGCTTGAATGTATGAAAAATGG
AGCTGCCCGTCCGCGCAGGTATTGTTTGAATGGAACGCAACGGCGTGCAATCGACCGCG
CCGAACCTCGCCGCCAAAGCGCGGAACCTCGGCGCCGAGCTGATGAAGCTCGAACAGGAAG
CCTATGCGCGCGCAGGCGAGCCGTTCAACCTCAATTGCGCCAAACAGCTGCAAGAAATCC
TGTTTCGACAAAAATGGGCTATCCCCACCAAGGCGCTGAAAAAACCGCAAAGCGGCAATT
CCACCAACGAAGCGGTGCTCGAACAGCTCGCGCCCGACTACCCCTGCCTAAAAATCATCC
TGCAAAACCGCGAGCTGCGGCAAGCTCAAATCCACCTACACCGCAAACTACCCGAAATGA
TTTCCCCCAAGGACGGCGCGTGCATACCACCTACGCCAAGCCGTGCGCATTAACGGCC
GCCTCGCCAGCAACAACCCCAACCTGCAAAATATCCCCATCCGTACCGAAGAGGGCGTA
AAGTCCGCGCGCTTTACCGCACCGCAAGCGAGCGTCATCGTTTCCGCGGACTATTCCC
AAATCGAGCTGCGCATTTATGGCGACCTCTCCGGCGACAAAACCTGATTGCCGCTTCC
AAAACGCGGAAGACGTACACCGCGCACCGCCGCGGAAAGTGTTCGCGACTGCGCCGAAA
ACGTCTCGTCCGAGCAACGCGCTATGCCAAAAGCATCAACTTCGGCTTAATTTACGGTA
TGGGCAATACGCTTTGGCAAAATCATTGGGCATCGACAACCTTTCCGCCAAAAACTTTA
TCGACCGCTACTTCGCGCGCTACCCGCGCTCGCCGAATACATGCAGCGCACCAAGAAC
AAGCCGCGCGCCAAAGGCTACGTGAAACCCGTGTTCCGGCAGAAAGGCTCTACCTGCCCGACA
TCGCGCAACAAAAACGCGCAACGCGCGCGGAGCGGAACGCGCTGCCATCAACGCCCA
TGCAGGGCACCGCTCCGACCTCATCAACGCGCCATGATAGAGCTGTCCCGCTGGCTTT
CAGAGTGCGAAGCTCCCGTGGGACGAACCTCTTACAAAGCAAACTGATTATGCAGGTGC
ATGACGAACCTGGTGTGGAAGTCGTTGAACCGAACTGGATTTGTCAAAGAAAACTGC
CGCAGATTATGGCGAAAGTGGACGCGCGGATTATTGGATGTACCGCTGGTGGCTGAGGTG
GCGTAGGGGAGAATTGGGAAGAGGCACATTGATTGAAAGGTGTTATATGCTATCTTTATT
TAAATAAAATTTAATTTTTTGGTATATTTTTTCTAAATGTTCTATAGTATAGTGGATTAA
CAAAATCAGGACAAGGCCAGCAGACAGTACAATAAGTACGGAACCGATTAC
TTGGTGTCTCAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGACAACGCTGTAC
TGGTTTTTGTAAATCCGCTATATCCGCCATCTCTAAGATTACAGCGATACACGGGTGA
TTTAAGGAATGCCGAACCGCTCATTCCCGCAACTTTTCGTATTCCACGAAAGTGGGAA
TCTAGAAATAAAAGCAGCAGGAATTTATCGGAAATAACTGAAACCGAACAGACTAGATT
CCACCTGCGTGGGAATGACAATTCGAGACCTTTGCAATAACATAGGTTACTAAAAATTT
ATGCTCAATCTCATTTTCAAAATGCAAACTTTTCTGATTTTCTACTTTTGTCTCAAT
ATTAGGAAGGTTTTAGGCAATTGAAAATTTTTTGGCGCATTTTATGCGTCAAATTCGT
TAACAGACTATTTTGAAGGTCTCAATTCATAAGTTCCCGAAATTCACATAACCG
AAACCTGACAATAACCGTAGCAACTGAACCGTCATCCCGCGCAGGCGGGAATCTAGACC
TTAGAACAACAGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTAGATTCCCGCTTT
CGCGGGAATGACGAAAAGCAAGCCGTAGGTGCGATACTTGTATCCGACAAAAGCCTGCCA
TCTCAAATAGCCGTGCGATTGAGAATCCGACCTGCCAAACCGGGCGCGGACGCTCCGGC
CGGCAGTTAGTACGCAATCGAACAGAACATCACAAAAAGCCGATTTCGGATTTTCCAA
TCGGGCTTTTTTGGCGCCGTTTTGTCATCCCGTGAAATATCCGATGACAAAAATATAGT
GAATTAACAAAAATCAGGACAAGGCGACGAAGCCGACAGTACAGATAGTACGGTAAG
GCGAGGCAACGCTGTACTGGTTTAAATTTAATTCATAATGCAAAATCATGACAAAAC
CGGCGCAGGTTACACAACCGGATGAAATCAACCGATATTCAACACAGTCATTTTTAGC
GCATTTTTCAGCGTATCGTTAATGCGGAAAATTTTCGTGAACAGGTTTTTTGCACAGGCTC
CGCTCGTTTCGCGGGATGGGAAACCGTATTAGAAAACGGACGACGCAACATAAACCC
GAAAGTGATGATAAGATGATTTAACGTACTGCTTAAATTTTAAAGGAATTATCGTG
TTTCCCGCAAAATACAAGTTGAGTTTGAAGAAAAATTTTTTTGGCAAGAAAGTATTG
GTTGCCCAATTCACAACCTCAGTCGTTTTGAGAATTGTGACAGACCTTGTGACAGC
GAACAAATATCCATGGCAAAATGTAGCCTCCGCGTCACTGGAAGACATCCAACCATC
TTGAACCTGAACGCTGCCTATCAATATGTGATTTCCGATATTTCAACGGCGAACCGGT

Appendix A

-464-

GATATTTCACTCCTTAAAAAATCAACAACATTGTTGCCAAGGACGATTCTTTGGCACCC
GGTGATTTCGGTACCGGTTTCGGTCGGCGTAACGCTATTGGACGGTTCCTCATGCCCGG
AATCCAGTGAAGGAAATGAAGTGGCCCGCGTGTACAAAATATCGGACTGCAAGCGGT
TCGACGCGGAGGCAGCCGTCCTTTATGCTTTATGTATGCGGCAGCAGGTTTTTTGG
GACGGCAACAAACGAACGGCAACCTTATTTGCCAACGGTCTGATGATGGCGGGGGCTGC
GGCATCTTGGAAATCTCCGAAATGCAGATGCCGCAATTCAATGAAAACTGTCCGCATTC
TATCGCTCCGGCGACGATACCGATATTTCCAAGTTTGTGTATCAAAATTGTATATCGGGC
ATAGACTGAGACCTTTGCAAAAATCCCCAAAACCCCTTAAATCCCACCAAGACATTTAG
GGGATTTTCCATGAGCACCTTCTTCCAGCAAAACCGCCCAAGCCATGATTGCCAGACACAT
CGACCGTTTCCCGCTATTGAAGTTGGACAGGTGATTGATTGGCAGCCGATCGAGCAGTA
CCTGAACCGTCAAAAACCCGTTACCTTAGAGACCACCGCGCCGTCCTCCGCTATCCCT
GCTGTCCATGTTCAAAGCCGTCCTGCTCGGACAATGGCACAGCCTCTCCGATCCGAACT
CGAACACAGCCTTACCCGCTATCGATTCAACCTGTTTTGCGGTTTTCGCAACTGAG
CATCCCGATTACAGCACCTTATGCGCTACCGCAACCGGCTGGCGCAAGACGACACCT
GTCCGAATGTTGGAATGATTAAACGCCAATGACCGAAAAAGGCTTAAAGTAGAGAA
AGCATCCGCCCGCTCGTTGACGCCACCATTATTAGACCGTCGGCAGCAACAGCGCCA
GGCTATAGAAGTCGATGAGGAAGGACAAATCAACGGCCAAACCACCCGAGTAAGGACAG
CGATGCCCGTTGGATAAAGAAAAACCGGCCCTTACAACTCGGTTACAAACACATACCCG
TACCGATGCGGAAGGCTATATCGAGAACTGCACATTACCCCGCCCAATGCCCATGAGTG
CAAACACCTGCCGCTTTGTTGGAAGGACTGCCCAAAGGTCGACCGTCTATGCCGACAAA
GGCTACGACAGTCGCGGAAACCCGCAACATCTGGAAGAACATCAGTTGACGAGACGGCATT
ATGCGCAAAAGCTGCCGCAACCGTCCGCTGACGGAACGCAAAACCAACGCAACCGGTAT
TTGTGCAAGACCGTTATAGTGGATTAAATTTAAATCAGGACAAGCGACGAAGCCGAG
ACAGTACAAATAGTACGGCAAGCGGAGGCAACGCCGTAAGTTTAAATTTAATCCACTA
TATGTGTCGAAACAGGCTTCGGTACGCTGCACCGTAAATTCGGCTACGCTCGGGCAGCC
TATTTCCGACTGATTAAAGTGAGTGCGCAAGCCATCTGAAGGCGATGTGTTGAACCTT
TTGAAAGCGGCCAACAGGCTAAGTGCGCCCGCTGCCGCTTAAAGCAGCCCGGATGCCT
GATTATCGGGTTCCTGTGAGGATTAAGGGGTATTGGGTAGAATTAGGAGGTATTGG
GGCGAAAATAGACGAAAACCTGTGTTGGGTTTCGGCTGTGCGGAGGGAAGGAATTTG
CAAAGGTCTCAGACTATTTCCGGCAGGACGAAGATATAGATTTCCCGACCCACCAACA
TGGGCTAAAAATCAATTTACCGTTATCAGACAATGGAGCAGGCAAGGCGGCGGCGAGA
AAAAGGGTTTGACAGCGCGTGGCATCGTCAGACCCCTTTCGGCATATCCGGCGGTTA
CCAGCGGTAGCTAATTTGATGCCCGCGCTGTGTTGCGCTTCCAGTTGCGGGCCTTTGGC
GGCGGACGCGTGAGGGGACAGCGTGAAACCTTTGATTTCGGCGTTTACGCCCATTTCCGC
ACTGCCGCTTTTCCGAAATCCGCAACATACGCGGATTTGACGCGTGTTCGGACTTT
GCCCCAAGCGGCATCGGTATAGGACAGGCTCAAATAAGCGCTGATGGAATGTGTTGCGC
CGGTTTGAATGAATAATCTGCCTTAATGCCCGCGCGGTAGCGGTTGAATGCAAGGCCGGG
GGTGGCGATATTGACGTTTTCGTAGCGGTAATCCGCTTTTGGACGAAATAGCGCGTTGC
GCCGATGTGCGGTTTCGATGCCGAATCCGCCGAAACCGCGCGGTATCGTGCTGAATGCC
GTAATGCAGCAGCGCGCGCGGATTTGCTCCGATGCCGCTCTGAAAGGCTGCCGCTGCT
AAAACCCGCGCCCGCGCTGATGCCGATGTAGAACCTGTGATGCCGTTTATGCCGAAAAAC
GGCGCCGTGGGCAAGCGTGGCGAGTTGCCGATGCCGCTGCTCGAAGGTGTTTTCGGTCCG
GTTGTGCGAAAAAGGATGCCGACGCGCCGCTGCCGAGGTTTTCTGTCATACCGATTG
GCGCAGGTGCGTTTGTGGCGGTAGGCGCGGAAATCTTGGCAACGGTAGTGTGTTGGTGTC
CCGGATGCCGCTTGTCCAAACCGCGTTCGCGCGGTCTTCGCAAAATACGCGTCTAATTC
GTCCTGTACGGCGAAAACGCTGTTGAGCGTGGCGGAAAATCACTCAAACCGCTATTGGC
ATAACGGCTGATCAGGTCGCGCTGCGGTTGGGGCTGCGGTTGGGGTTGAGTTGCGGCAA
ATCCGCGCGGCGCGCGGCGGGAAGGCGGTGGTAGCGCGCGGTTTCCGCTTC
GCGCTGTTTCGCCAAGCGGTTGCTTTATCCGCTGCACCCGTTTTTCTCTCTCCGCG
CTGCATAATGCCGACATTTTCCCGCCTGCTGCCGGGCGGTTCCGGCAACGCTTTCTGT
CTTTTCGACGGCATCGCGCCCGCGCAATCAGCGCGTCAAGGCTTTGCGCGTTGTCTTT
TTCGCGCTGTTTTTGGCTTCTGCTTTCGCGAGTTTGTGCGGAAAGCTTCTGTTCTTTGAC
CGGATTATGACAGCGGAACTCGCCGCTTTTGGCGATGAGTTGGTAACGCCACGCGCGGCG
ATCGAGCTGTTGTTTTGAGGGTGAAATTAAGGTTTTTCGGACAGCGGTTGTTGTCTTT
TCTTCCACTACCGTCAATTTTCGAGGCTGACAGTTGCTTGGCGGATTGTTGACCGC
CAAGGTGTAAGTGCTTCGGAACCTTCCGCCAGCTTCAATTTGTCGCTGCGGTAGCCGAA
GAGTTCGACATAAAGCGGAATGTTCCCTGACCGTTCAATTTGCCGTTTACCGTCAGCGT
GTTGAAACGGGATTTACCGAAGTTGGCGGTGTACCGGATAATAGGGAACGGCGCGAAGC
GCGCAACGGCGCGCGCGCGCATCTGTGCGACTGCCGTTTTCGCCCTTCCGCGCATCGTG
GCGATAGCGGAATTGAGTGTAATGGTGGCGTTGTCAAGGTTTAAATTGCCATAATCCGT
GCCTGACGGCAGCGTCCATTTCGCTGTCTTTAAGTGTAATGCCGTATCCTTGCCGCGCGT
GATTGTCCGGTAAAGCGGCTGCTTTCAAATGGAATACTGCCTTATCGGCTAGGGAGAC
ATTACCGTTGAGTGCGGAATGGCTTACGTTTGCCTTAGCGTTGCCGGAAGCGTCAGACT
GCCGTTTGTACGGCGTGGTGCCTTAGATTAAATGAAGCATTGCCCGAAGCCGATGTGTT
GCCGTTTAAATGTGGCTGATTAAATGTGCTTGGGCAATGCCACGAGGCTAAGGTTGCC
GTTTTGGGTGGGCTGTGCTGACTGTATAACGTGTATGCCCATTTGCACTAAGATTGCC
GTTGAGTGTGGCAAGCCCTGTGAGATTAAATGAGCGTGATCGGCAAGATCGACATTGCC
GCTGATGTGCGTCTTAGTCAATGAAGCAATCACTTTATCGTCGGTAATGGTTTTTCGAC
ACAATTTGTACAGACCTCCAGTCCGAACGTGTACAGATTGTGTGGCTTTGATGCGGTGC
GACACCAAAAACGCTTGGGCGTGATTGCTCAAATGCCAATCGCCTTTCACCTTGGCAAC
ATTGCGGGAAACACCGCTGTCGCGCTTAAATTTGGAAGTTTTCCGCTTTAAATGTGCG
GTTGATCCAGTGTGTGCCACGATTTCGCCGAGGAATGCCCTTTTTTTCGACCA
ATGGTCGTTTTAAATGATTGTAGGCGTGCGGTGTTGGTCTGCCGCTGAAAAACAGTTTGCC
GTTTGTGTTGCGTGATGTTGCCGTTAAATTTGTTCCGCCGAAAGCAGCAGGGTGCGGTC
TTCTGCGCGGGGCTGGTAAACAAGGTTGAGCCGCCGCTTCGTTTTGGTTCGTATCTTTCTC

Appendix A

-465-

GCCAAACCAACCGTTGTAGGCAATTTCTTTTTTGCTATCCAAGCTGTTGTTATTGCCGGT
TGTAGCAATATCTTTATTGCTGTAAATGGTAACGGTGGATTCTTTTGCTTGTATTGTGGTT
GACAATCATCGCCCCCTTATCGGTATTTTGAATACGGTGGAAACGAAAGCGAATGCCCGTT
TAAATCCAAACGTCGCGCGCGAAAGCCGAAATAGAGTTTGTGCGGGTTGAACTGATTATC
GGCATTTCAGTTGCACCGTACCCCTGCCGCTGACCAAGCCGATTTCCTAAAGGCTTGT
TTGCTTTATCGTCTGCTGCTGATCCAAATGACTGTACCGTCGCCACGCTGATCGA
GCCTTGGTTTTTCCCTTTGGCTTGAACGTGCAGCGTGCCTTTGCCGATTTTGGACAGCG
GTCGTTTGGCACGCGTTTACTTTCCAAGTAACGGTACTGTCTTCACTGATATGAACGCC
CGCGCTTGGCAAGTTTCGTTATTTTCAGCGGAGACCGTAAATCTCCTTGGAAATATAA
TCCTCCAGCACCTTGATTGATGTTGCTGGTAAGTATCAATTCGCCCTTTTCTTCTGTCAT
AAAGGAAATATTTTCTCCATTATTCAGTCTGGGTCGATAACTGTTGACACCACTGCAGC
ATGATAAACAGGTTCTCTTGTCTCGGATAAAGAAACATTAAACAATTGAACGGTTCG
TGTTTTTAATCTATTAGGCAGAGAATTGTGTTCATGTTTGGCATTGATTTTCTGTGCC
ATTATTATCGTCTGTTAAAGAGTATTTCCATTTTGACGTGGTTCGTAGAATACTGAATG
GGTATCTCCAGCAAGATTTCATCATAGAACCAATCTTTACGAACCACTGGAAGCCATT
GCTTTTTCTATATAGGGGTTGCCCGTTTGAATACCCCATTAATTAACCACTTTTGCTT
TTGGGCATCATAGATAAACATTGGTGAGCCACTGTGCCAAATGAGCCTCCTGTTGGTAA
AAAACCATATGGGCTATGTTTAAATTTTCTACTACCTAAGTTGACTGTGCCACCACTGA
TCCATTTTGTGCAAGGTATTGCCACCAAGAGCCAAGAATACGCACTTGCAATATGATA
TGAACTTTCGCGGTTATTTGGGCTCATCTTCATCAGATCGCAATATTGCCGTGCCCTGCC
AATACGAACACGGTCAGGTAAGTATTTTGTATCGATATATTTCGCCCATCCATATAACT
GGTCATTTCAACAGGTTCTGCATCTGTGACAAATTTATGCAACCGCGCATATGATAATC
GCCGCCATAAGGATGGCCTTTAGTCCCTGCTTTATAATTATTCGTTTCAATTTTATA
AGTAAACAGTGTGATCGGATTTCTTCTTCCGACCAAAATCAACGTTGTTATAGCC
GCCGTTATGTGCCAGCGTACCAATATATTGATCGCCCAACATGCCGCCACGCGTTACG
CGACACCACAGAAAATCAATCATCGGGGCTTTTGTCAATTGATTTGCCGACCAACTCCCC
TTTTTTGTTGTAACCTCAATATCTTTCGCCCGACTGCAAACTTGCCCTTTATTTTCGGC
AAAGTCGCGATAGTATTGCGGTTGATGCGGAAATAAGTGTGTCCGCCCGAGGCTTGGG
AAGAATGCCGACGACAGGCATATGGCTAAGTAAGCAGCGGAGAGCGGATGCCGCGGT
TTTCGGGGCTTTCGGGTGTTTTCGGTTGTCGTTTGTTCGTTGTTTTCATATTTTTC
TTATCTGACGGGATTCGGGTTTGTGTTGGGAGGCGCGGCTTCCGCTTCCGGCGCGCGC
GGGATGTGCCTATATGTGCGGTTTCGGGCTTCCGGCGGATATGAAGCACGCCCTAGGATT
GTCATTAATTTTGCCTTGGTCTCGGCTTCTTCCATCAGGAAAGCACCCGCCAAGCAA
ACACTGTGCCCGCGCAAGGGAGGCGCGGTTTCCGGGTAGCCGCTCCATACGAGGAAGA
CGGCAAAAAGCAGTATCAGGATGGCGCTGATGAAGCCGTACAGTTGCCCGCGCTGTTGA
AGGTTTGGTCTTGCCTATGGTTTCGTGCGGACGGCTTGTCTTTTCCGCCATTGCCA
TAATGCCGTCTGCCCGTTGCTGATAATGTCGTTGATTGCGCAAGTCGGACGGCGCG
GCAACGGTCCGGAATGGAAACACCGGGCTATCATTATTTGCACGTACTCGTCGGACAGGA
TTTGCTCGACAAGCTCCGGGGATTGACGACGGTTTCGACAGCCTGCCGCGCTTGTCT
GTGCGTTTTCGGTCAATTTTCGCGCTTCTCTATGCGCGCTGAAATCGCCGCCGATGTT
TTTGAGATCGTCGGCGGATTTGGGCGGATGGCGGTTTTCGGGATGGAACAGACCCAG
CAGCGAGCCTATACGAGCAGGAGGGCGTATGTGTTTCGTTTTCATATGTTTATATAT
TAGGTACGGCGGACGGATTATCAAGCATTTTTCGGGTTTATACCGTCTGAAAGCCAAA
CCGTCCGACTTCAGACGGCATTTGCTATAATCGCGGCTGTTTGAATTTTCGGGGGTTTT
ATGTCGGATAACGTTCCACAGATTGCGGCACTGCTACCGCACCGGCGCGCGCGCTG
GGCGTGATACGCATATCGGGGAAAAACCTGCTGCCGATGGCGCAGGCTTTGTGCGGAAA
ACGCCCAAGCCGCTACCGCAACCTATGCTGATTTTACGGACACGGACGGACAGGCAATC
GACAGCGGCTTTTGTCTGTTTTTTCGCCACCGGCAAGTTTACGGGTGAAGATGTCATC
GAGCTTCAGGGACAGGCGCGGCGGTGGTATGGATATGCTGCTGAACCGCTGTTTGGAA
TTGGGCGCGCGCTTGCAGAACCGGCGAGTTTACGAAGCGTGCCTTTTGAACGACAAA
CTGGACTTGGCACAGCGGAAGGCGTGGCGGATTGATTGACGCATCCAGCCGTTTCGGCG
GCGCTCTGGCTTTCGCTTCGCTCAAGGGCGATTTTTCGCGCGGATACAGGCTGCTGTC
GAAGACTTGATTACCTTGGCGATGCTGCTGGAAGCGACGTTAGATTTTCCGAGGAAGAC
ATTGATTTTCTCGAAGCGCAGACGACGCGGCAAACTGGACGGCTTGCGCCGCGCGGTG
GATGATGTGCTTGCAGCGCAGCAGGCGCGGATTTTGCGCGAAGGCTGTAATGTCGTA
TTGGTCCGCGCGCGCAATGTGGGCAAGTCCAGCCTGCTGAACCGCTTGGCGGGCGACGAA
GTGGCGATTGTTACCGATATTGCCGGAACGACGCGGACGCGGTAGGGAACGTATCCTG
ATTGACGGCGTGCCTGTCATATTGTCGATACGGCAGGTTTGGCGGAGACGGACGACGTG
GTCGAGCGTATCGGCATCGAAGCGAGCGCAAGCCGATCCGAAGCCGATGTCGCGCTG
GTGTTGGTGCATCCGCGCGAGGGTTGAATGAAAAGACACGGGCGATTGAGACGCGTTG
CCGCCGAGTTGAAACGCATCGAAATCCACAGCAATCCGATTGACAGCACACGCGGCA
GGCGGTTTCGGTACGGGCGCGGAAACCGTATCGCGTTGTCGGCGAAAACCGGCGACGCG
TTGGACGCGCTGAAACGGACGTTGTTGCGCGAGGCGGTTGGCAGGGCGAAAGCGAAGGG
TTGTTTTTGGCGCGGACCGGCGACGTCACGCACTCAAAGCAGCGCAGGAAGAATTGTCG
CTGGCGGCTTGTGCGGCAACCATCAAATCGAGCTGTTTTCGCGAACACTTGCCTTGGCG
CAGGTGCGATGCGGCGAAATCACGGGCGAGTTTACGGCGGACGCTGCTCGGCGTATT
TTTTCGAGGTTTTGTATCGGAAAATAACGGATCGAAAGCATCGTGGTGGTGTCCGGCTG
AACATTCCGTTATCCATAAAAACGGGAATCCGATCCGTTTGGTTTTATAGTGGATTAAAC
AAAAATCAGGACAAGGCCAGAGCGCAGACAGTACAAATAGTACGGAACCGATTCACT
TGGTGTCTGAGCACCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTA
GGTTTTTGTAAATCCATATAGTTTTTTGAATTTCCGGGCAACGCTGAATCTTCAATCC
GCGCAGGCGGAAATATCGGTGCGGTACGGCACTTTTTTCGATATGAAAAGACCGTCAT
TCCTGTAAAAACAAAAATCAAAAACAGAAAATTGAAATTCGTCTATCCCGCGCAGGCGG
GAATCCAGGACGTAAAAATCTATAGTGGATTAAACAAAACAGTACAGCGTTGCCTTGACT
TAGCTCGAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAGTGAGTGGTTCCGTACTA

Appendix A

-466-

TCCGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATTTTTGTTAATCCACTATAAAGAAA
CCGTTTTTCTCGATAAGTTTCCGTGCCGACAGACCTGGATTCCCACITTCGTGGGAATGA
CGGTGGAAAAGTTGCCGTGATTTCCGATAAATTTTCGTAACGCATAATTTCCGTTTTACC
CGATAAATGCCCGCAATCTCAAAATCCCGTCATTCCCCAAAAACAAAAATCAAAAAACAGA
AATATCGTCATTCCCGCGCAGGCGGGAATCTAGACCTTAGAACAACAGCAATATTCAAAG
ATTATCTGAAAGTCCGGGATTTAGATTCCCACTTTCGTGGGAATGACGAATTTTAGGTT
TCTGTTTTTGGTTTTCTGTCTTGC GGGAATGATGAAATTTAAGTTT TAGGAATTTATC
GGAAAAACAGAAACCGCTCCGCCGTTCATCCCGCACAGGCTTCGTTCATTCCCGCGCAGG
CTTCGTTCATTCCCGCATTTGTAAATCCACTATATTCCCGCCGTTTTTTTACATTTCCGAC
AAAACCTGTCAACAAAAACAACACTTCGCAATAAAAAACGATAATCAGCTTTGCAAAAA
TCCCCCCCCCTGTAAATATAAATAAATAAATATTATTAATTTATTTTCTTATCCTGCCA
AATCTTAACGGTTTGGATTACTTCCCTTCATACTCAAGAGGACGATTGAATGAATACCC
CATTTGTTCCGTCTCAGCCTGTCTCGCTTACCCTGGCGGCAGGTTTTGCCCCATGGCGCAG
AAAATAATGCCAAGGTCGTACTGGATAACCGTTACCCTAAAAGGCGACCGCCCAAGGCAGCA
AAATCCGTACCAACATCGTTACGTGCAACAAAAAGACGAAAGCACCGCAACCGATATGC
GCGAACTCTTAAAGAAGAGCCCTCCATCGATTTCCGGCGCGGCAACGGCAGCTCCCAAT
TCCTGACGCTGCGCGCATGGGTCAAACCTCTGTGACATCAAGGTGGACAACGCCTATT
CCGACAGCCAAATCTTTTACCACCAAGGCAGATTTATTGTGATCCCGCTTTGGTTAAAG
TCGTTTTCCGTACAAAAAGGCGCGGTTCCGCCTCTGCCGTTATCGCGCGACCAACGGCG
CGATCATCACCAAAACCGTCGATGCCAAGACCTGCTCAAGGCTTGGATAAAAACTGGG
GCGTGCGCTCAACAGCGCTTGTGCTTGGCAAGCAACGAGCGTAAGCTACGGCGCAAGCGTAT
TCGGGAAAGAGGGCAACTTCGACGGCTTGTCTCTTACAACCGCAACAATGAAAAAGATT
ACGAAGCAGGTAAAGGCTTCCGTAATAATTTCAACGGCGGCAAAACCGTACCGTACAGCG
CGCTGGCAAAACGCAGTACTCGCCAAAATCGGAACAAGCTTCGGCGCAGCGGACCAAC
GCATCGTATTGAGCCATGTAAAGACAGCACCGGGCATCCGTACCGTCCGTGAAGAAT
TTACCGTCCGGCGCGATAAAGAGCGAATAAGTATGGAACGCCAAGCCCTGCTTACCGCG
AAACCACACAATCCAACACCAATTTGGCGTACACGGGTAAAAACCTGGGCTTTGTGCAAA
AATGGATGCCAAGCTGTATGTGTTGGAAAAAGAACGCTATTCCGCCGATGACAGCGGCA
CCGGTTACGCAGGCAATGTAAAGGCCCCAACCATACCCAAATCACCCTCGGGGTATGA
ACTTCAACTTCGACAGCCGCTTGGCGAACAACCTGCTGAAATACGGTATCAACTACC
GCCATCAGGAATCAAAACCGCAAGCGTTTTTGAATTCACAATTTAAATTTGAAGATAAG
AAAAAGCAACTGATGAAGAGAAAAATAAGAACCGTGAAATGAAAAATTTGCCAAAGCCT
ACCGTCTGACCAACCCGACCAAAACCGATACCGCGCGGTATATCGAAGCCATTACAGAGA
TTGACGGCTTTACCCTGACCGGCGGGCTGCGTTACGACCGCTTCAAGGTGAAAACCCACG
ACGGCAAAACCGTTTCAAGCAACAACCTTAACCCGAGTTTCGGCGTGATTTGGCAGCCG
ACGAACACTGGAGCTTCAGCGCGAGCCACAACCTAGCCAGCGCGAGCCGCGCCTGTATG
ACGCGCTGCAAAACCCAGGCAAAACCGCGCATCATCTCGATTGCCGACGGCAGGAAAGCCG
AACGCGCGCGCAATACCGGAATCGGCTTCAACTACAACGACGGCAGCTTTGCGCAAAACG
GCAGCTACTTCTGGCAGACCATCAAAGACGCGCTTGCCAATCCGCAAAACCGCCACGACT
CTGTGCGCGTCCGTGAAGCCGTCAATGCCGTTACATCAAAACCCAGGTTACGAATTGG
GCGCGTCTACCGCACCGCGCTGACTGCCAAAGTCGGCGTAAGCCACAGCAAAACCGC
GCTTTTACGATACGCACAAAGACAAAGCTGTTGAGCGCAATCCTGAATTTGGCGCACAAG
TCGGCCGCACTTGGACGGCTTCCCTTGCCCTACCGCTTCCAAAACCCGAATCTGGAAATCG
GCTGGCGCGCGCTTATGTTCAAAAAGCCGTGGGTTTCGATATTGGTGGCAGGTCAAAAAG
ACCGCAACGGCAATTTGGAAAAACGTTGTACGCAAAAGGTTTCGGTGTGAACGATGCTCTCG
CCAATGGAACCGCTGGGCAAAAGACACGCTCAATGTTAATCTTTCGGTTAACAACGTGT
TCAACACGTTTCTACTATCCGCACAGCCACGATGGACCAATACCCCTGCCGGCGGTGGGAC
GTGATGTACGCTTGGGCGGTGAACCTACAAGTTCTAAAACGCACATCCGAAAAAATGCCGT
CTGAAAGCCTTTTCAGACGGCATCTGTTCTGATAATTTGATATATAGTGGATTAAACAAAA
CCAGTACGGCGTTGCCCTCGCTTAGCTCAAAGAGAACGATCTCTAAGGTGCTGAAGCAC
CAAGTGAATCGGTTCCGTACTATTGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATTTT
TTGTTAATCCACTATAAAGACCGTCGCGGCATCTGCAGCCGTATTCCCGCGCAGGCGGGA
ATCTAGACCTTAGAACAACAGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTAGAT
TCCCGCTTTCGCGGGAATGACGAAAGGTTGCGGGAATGACGAAAAGTGGTGGGAATGACG
AAAAGTATGGGAATGACGAAAAGTATGGGAATGACGGTTCGGGCATTCTTAAATTAC
CCGTGTATCGCTGTAAATCTTAGAGATGGCGGAATATAGCGGATTAACAAAAACAGTAC
GGCGTTGCCCTCGCTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGA
ATCAGTTCCGTACTATTGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATTTTGTAA
TCCACTATAGATTATCATTTATCTTTCTAAAGCCGTTCCGGTTTGTCCGACCGCGCGCT
TTGCCCAATATCCCATTTTGGAGACACCTATGTTACGTTTACTGCTTTAGCCGTATG
CACCGCCCTCGCTTTGGGCGCGTGTTCGCGCAAAATTCGCACTCTGCCCCACAAGCCAA
AGAACAGGCGGTTTCCCGCGCACAAACCGAAGCGCGTCCGTTACCGTCAAAACCGCGCG
CGGCGACGTTCAAATACCGCAAAACCCGAACGCATCGCCGTTTACGATTTGGGTATGCT
CGACACCTTGAAGCAAACTGGGCGTGAAACCGGTTTGTCCGTGATAAAACCGCGCTGCC
GTATTAGAGGAATTTTCAAACGACAAAACCTGCCGCGACTTTGTTTCGAGCCGGATTA
CGAAACGCTCAACGCTTAAACCGCAGCTCATCATCATCGGCAGCGCGCGCGCAAGGC
GTTTGACAAATTAACGAAATCGCGCCGACCATCGAAATGACCGCCGATACCGCCAACCT
CAAAGAAAGTGCCAAAGAGCGCATCGACGCGTGGCGCAAACTTCGGCAAAACAGGCGGA
AGCGCAAGCTGAAGGCGGAATTCGACGCGTCTTTGAAGCGCGCAAACTGCCGCA
AGGTAAGGGCAAGGTTTGGTGATTTTGGTCAACGGCGGCAAGATGTCGGCTTTCGGCCC
GTCTTCACGCTTGGGCGGCTGGCTGCACAAAGACATCGCGCTTCCCGCTGTGATGAATC
AATTAAGAAGGACGCCACGCTTACGCTTACGCTTTGAATACCTGAAAGAGAAAAATCC
CGACTGGCTGTTTGTCTTGAACGAAGCGCGGCTTCGGCAAGAGGGTCAGGCGCGGAA
AGACGTGTTGGATAATCCGCTGGTTGCCGAAACAACCGCTTGGAAAAAGGACAGGTCGT
GTACCTCGTTCTGAACTTATTTGGCAGCCGTTGGCGCAAGAGCTGCTGAATGCAAG

Appendix A

-467-

CAAAACAGGTTGCCGACGCTTTTAAACGCGGCAAAATAATGAAACGGCGGCATTTCGATGCGG
TCTGAAACACGGATGCAAAACCGCTCCTGTGTTTTCAGACGGCATTGCCCGATACGGAGGC
TTCAAACAAGGCTTTCCGCTCCGACGGTTCGGACTGCCTTGTGTAATCTTCTACGCCCTT
AACGCTTTTCCCTTCTGTGTTTATGACTGCCAAACCTTTTCCCTCAACCTGACCAACCTGC
TGCTGCTGGCGGTGTTGTTTGGCGTCAGCCTGTGCGTGGCGGTGCGGATTTCCGCTGGT
CTGATGTGTTTTACTGTCCGACAGCCAGAGGTGATGTTTCATCAGCCGCCCTGCCGCGCA
CGTTTGCGATTGTGCTGACGGGCGCGTCGATGGCGGTGGCCGGCATGATTATGCAGATTT
TGATGCGCAACCGTTTTGTGCAACCGTCGATGGTGGGCGCAAGCCAAAGCGCGCTTTAG
GTTTGCTGCTGATGACCTGTCTGTGCGCGCCGCGCGCTGCCGCGGAAAATGTCGGTTG
CCGCCGTTGCCGCGCTGATCGGGATGTTGGTCTTTATGCTGCTGATCCGCCGCTGCCGC
CGACCGCGCAACTGATGGTGCCTTTGGTCGGGATTATTTTCGGCGGTGTGATTGAGCGCG
TAGCCACCTTTATCGCGTATGAAAACGAAATGCTGCAAATGCTCGGCGTGTGGCAGCAGG
GCGATTTTTCGAGCGTGTCTGTTGGGCGGTACGAGCTGCTTTGGATTACGGGCGGTTGG
CGGTGTTTGGGTCGCTGATTGTTGCGGACCGGCTGACGATTTTGGGGCTGGGCGAAACGGTAA
GCGTGAATTTGGGTTTGAACCGGACGGCGGTGTTGTTGGTGGGTTTGATTATTGTGGCTT
TGATTACGTGCTGGTTATCGTTACGGTTCGGCAATATTCCGTTTATCGGGCTGGTCTGTC
CGAATCATCAGCCGCTGATGGGCGACAGGTTGCGCCAAAGCCTGCCTGCCGTGGCTTGGC
TGCTGGGCGCATCTTTGGTGTGCTGTGCGACATTATCGGACGCGTATTGTTGTTTCCGT
TTGAAATTCGGTCTCTACGGTTTTTGGTGTATTGGGTACGGCTTTGTTTTGTGGCTTT
TGTTGAGGAAACCCGCTATGCCGCTGAAAAAATATCGGTTTTATGGCAGGAAGCAGC
CGCCCGTTGTGGGTCGCTGTTGCGCTGTTGCTGGTTTCTGCGCTGTTTTATGACGCTC
AACGTCAAAGGCGATTGGGATTTTGTGTTTGAACGCGGTGACCAAACCTTGCCGCGCTG
CTGATGTTGCGCTATGCGGTTCGGCGTGTCCACGCAACTCTTCCAAACGCTGACCAATAAT
CCGATTTCTGACCCCTTCAATTTGGGTTTTCGATTGCTGTATGTTTTCGACAGCCTTG
CTGGTGTGTTTACGTTTCGGCGCGTGGGCTATGCTTCCCTGCCGTTGACGGGCAAAATTCGGC
TTTGAATGGTCTCATGATGGGCGGCTCGCTGCTGCTGTTCTACACGCTCATCAAACAG
GGCGGACCGGATTTGTGCGCATGATTTTAAATCGGCGTGATTTTCGGGATTTGTTCCGC
AGCCTGTGCTCGTCTGTTTCGCGCATGATCGATCCGAAGAATTTACCGCCGCGCAGGCG
AATATGTTTGGCGATTCAATACCGTCCACAGCGAGCTTTTGGGCATAGGCGCGCTGATT
CTGCTCGTCAGCGCGGCGGTGCTTTGGCGCGAACGCTACCGCTTGAGCGTTTACCTTTTG
GGGCGTGACCAAGCCGTCAATTTGGGCATCAGCTACACGCGCAACACCTTATGGATACTG
CTTTGGATTGCCGATTTGGTGGCGACGGCGACCGCGTGGTGGCCCCGTAAGCTTTTTTC
GGGCTTCTCGCCGCGCTCGCTTGCCAACCACTTTTCCCGCTCGGTCAAACATTCGCTCGC
CTGCCGATGACGGTTGTATCGGCGGCATCCTCTTGGTGGCGGACAGACCGTGTTCGAA
CACCTGCTCGGTATGCGAGCAGTGTGAGCGTAGTAGTAAGATTTGCCGCGGACTCGTT
TTCCTCTATCTCGTTTAAACACAAAAATGACGGATGCCGTCTGAACGGCGCGCGCCC
CGAAAGGACAAACCATATGACACAAGAACATTTCCCATCTTCTTCAACCAAGCCCCGAC
CATTACGCTCCAAGACGATTTGGCCGAATTCCTCGCGCGCGGCCGAAACGGCATCCTCAC
TTACCGCTACGCCGATGCCGTGCGCTGTGCGGACATTCTGCCGACCGTTCGCGGGCGC
GTACCTGATGGTTATCAAGGTCGTAAGCACTTACGGCGAAGAGCTGCCGAACGCGG
CGGCATCGAAGCCTTTATGCGAGGCGCGCGACGAAGCAGCGTTCGGCGTAACCGCGTC
CGTCTCCAACCTCTCACGCGCGAGCCCCGAAACCGGCTTTGGCGCATCGGAATGCA
GGGACGCTTTGCCGCGCGCCACCTCTTATCCTTTGGTGTAGGCGAAATCAACGGCACACT
GACCTGCGCGCGCAAGACAACGGCAAAACCGTTCGCGCTCGGCCTCAACGCGCGCTGCA
ACCCTTGCACCCGAAATGCGCGACATCATGCCCAAGCCGTGACGGCGAGCGCAAGCGC
AGAAGAAGCTCGAACGCTTCGGACAACCTTGGCAGGCACGCGTTAAAGCATTTTAAACCGA
ATCGGCGGACGACCGCGAGTTCGTCATCTCGCGGAAGTGTGAGCGTTTCAGACGGCATTC
CGAATTTCAAATGCGCTGTAAGCCCGCCAAACAACAACAACTACGCGCGGACAAGCAT
CCGCCATGATTACCATCCGCAACGTCAGTACCGCATCGGCACACGCCCCATCCTCGACA
ACGTCAGCCTCGACATCCCGAAGCGCGCATTACCGCCCTCGTCGCGCCCAACGGTGGCG
GCAATCCACCTGTTTTCCTTTATGGCGCGGCTGCGACCGCTTGAAGCGGCAGCATCG
CTTACCGAGGCAAAATCTTCCGATACCCCAACCGCGAATCGCCAAACCTGTCCA
TCCTCACCAAGAAAACAGCATCATGAGCCGATACCGTGGCGGACCTGTGATGTTGCG
GCCGTTACCCCTACCATCAAGGACAGCGACTGCCGAATGCCGCGGTATCGTTAACGGTG
CAATCGAAGAAATCCACCTGCAAGACCTCTCCGACCGCTACCTGACCGAGCTTTCCGGCG
GCCAACGCCAACGCGCATGATTGCGATGGTGTCTGCCAAAGCAGCGACTACGTCCTTT
TGGACGAACCGCTGAACAACCTCGATATGATCACGCGCGCTCGCTCATGCAATCCTGC
GCCGCTGACCGACGAACAAGCGCACCGCTCGTCTGATTGACGACATCAACAGG
CAGCAGCTACCGCCGACCGCTCGTCGCTGCGCATGAAAAACGGCCAAGTCGCCATGACGGGCA
AACCAACGATATTTTACCGCGCGCAACATCAAACCTTATTCGATATGGACGTCGACG
TCCTCGATTACGAAGGCAAAAAATGGTTATCCACCATATCTAAATCCGACAAAAAGGCC
GTCTGAACATTCAGACGGCAACCATATCCTGACAAAATTAAGACAGCACCGGCGAGAA
TTGACATCAGCATAATATGCACATATTAACAGATATTAATGCCGAACCTACCTAACTGCAA
GAATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA
TATGCCCTCTTTTCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT
CAAAAGATTTCCGCCCCATTTTTATCCACTCACAAAGGTAATGAGCATGAAACACTTTC
CATCCAAAGTACTGACCACAGCCATCCTTGCCACTTCTGTAGCGGCGCACTGGCAGCCA
CAAGCGACGACGATGTTAAAAAGCTGCCACTGTGGCCATTGTTGCTGCCTACAACAATG
GCCAAGAAATTCAGACGGCAACCATATCCTGACAAAATTAAGACAGCACCGGCGAGAA
CAATTACCAAAAAGACGCAACTGACGCGGATGTTGAAGCCGACGACTTTAAAGGTCTGG
GTCTGAAAAAAGTCGTGACTAACCTGACCAAAACCGTCAATGAAAAACAAACAAACGTCG
ATGCCAAAGTAAAGTGCAGAACTGAAATAGAAAAGTTAAACAACCAAGTTAGCAGACA
CTGATGCCGCTTTAGCAGATACTGATGCCGCTCTGGATGAAACCACCAACGCTTGAATA
AATTGGGAGAAAATATAACGACATTTGCTGAAGAGACTAAGACAAATATCGTAAAAATTG
ATGAAAAATTAGAAGCCGTGGCTGATACCGTCGACAAGCATGCCGAAGCATTCAACGATA

Appendix A

-468-

TCGCCGATTTCATGGATGAAACCAACACTAAGGCAGACGAAGCCGTCAAAACCGCCAAATG
AAGCCAAACAGACGGCCGGAAGAAACCAAAACGTCGATGCCAAAGTAAAGCTGCAG
AAACTGCAGCAGGCAAGCCGAAGCTGCCGCTGGCACAGCTAATACTGCAGCCGACAAGG
CCGAAGCTGTCCGCTGCAAAAGTTACCGACATCAAAGCTGATATCGGTACGACAAAGCTG
ATATTGCTAAAACTCAGCACGCATCGACAGCTTGGACAAAACGTAGCTAATCTGCGCA
AAGAAACCCGCCAAGGCCCTTGCAACAAGCCGCGCTCTCCGCCCTGTTCCAACCTTACA
ACGTGGGTCCGTTCAATGTAACGGCTGCAGTCGGCGGCTACAAATCCGAATCGGCAGTCG
CCATCGGTACCGGCTTCCGCTTTACCGAAAACCTTGGCCGCCAAAGCAGGCGTGGCAGTCG
GCACTTCGTCCGCTTCTCCGCGAGCTACCATGTGCGCGTCAATTACGAGTGGTAAGCAG
CATCTCCCGATAAAGAAACCGCAGCCCTGCAAGGCTGCGGTTTTTATTTCTATCCGGCC
GTCAGAGTCGCCGCTCCGAACGTTCCGCCGTGCGGATACGGATTGCCTCCTCAACCGGCA
GCACAAAATCTTGCCGTGCGGATTTTTCCCGAACGCGCCACCTCGAAATCACGTCAAT
CGCGCGTTCACAGCATCATCCGCCAACACAGCTCGATTTTGATTTGGGCAGGAAATC
GACGGCGTATTCCGCGCGCGCATAGATTTCGTATGCCCTTCTGCCTGCCGAACCTTT
GACCTCGCTGACGGTATGCCCGTAATGCCGATTTCGTCAACGCCCTGCGCACGTCGTC
GAGTTTGAACGTTTGACAATCGCCTCGATTTTTTTCATAAAATTTCTTTGAACAAACA
ATACAAACACATCCGAAAAACGGGAACCTCCCGTCAGATTGTCAACATTTTAAGCCAAA
TACCAAAGCAATACAGCCCGCTTTCGCGGTATAATGACAGATTTTCCAACCGCATTTGAGA
GCCGAATCCATGTCTGTGTTTTGCCCTTTCGCGCGGCTTACCGCCCTTCCGATTTCCGT
GTTGAAAACTCTTGCAAAAAGCCGCGCACTCGGTCTGCCGAAGTCAAATTAAGCAGC
GAATTTTGGTATTTCGTGCGCGAGGAGAAAGCACTTGATGCCGCGACTGTCGAAAACTG
CAAGCCTTGTGGCGGCGCAAGCGTTGAACAAACGCCAAAAGCGCGAGGGCTTGCAT
TTGTTTTTGGTCACGCCCGTTTTGGGTACGATTTCCGCGTGGGCTTCCAAGGCGACCAAT
ATCGCGGAAAACCTGCGGTTTGGCAGGCATCGAACGCATCGAGCGCGGTATGGCGGTGTGG
CTGGAAGGTCCGTGTAACGATGAAACAGCAACAGCAATGGCGCGCTTGTGTCACGACCGC
ATGACCGAAAGCGTGTGCGCGATTTTCAGACGGCTCCAAATTATTCACCATCTCGAA
TCCGAACTTTCTCCGCGTCGATGTTTTGGCGCGCGGTAAAGAAGCTTTGGTCAAAGCC
AATACCGAAATGGGCTTGGCACTTTCGCCGACGAAATCGATTATCTGGTCGAAAACTAT
CAGGCTTTGCAGCGCAATCCGTCCGATGTTGAATTGATGATGTTTCGCGCAGGCAACAGC
GAACACTGCGCGCACAAAATCTTCAACGCCGATTTTCATCTCAACGGCGAAAAGCAGCCCC
AAATCCCTCTTCGTTGATGATACGCGACACACACAACGCGCATCCGAAGGCACGTCGTT
GCCATAAAAGACAATTCTCCGTAATCGAAGGCGCGAAAATCGAGCGTTTCTATCCGAAT
GCGGCGGAAAACCAAGGTACCGTTTCCACGAGGAAGACACGCATATCATCATGAAAGTG
GAAACGCACAAACCCGACCGCCATCGCGCCGTTTGGCGGTGCGGCGACGGGCGCGGGC
GGCGAAATCCGCGACGAAAGCGCGACGGGCAAGGTTTCGCGTCCGAAAGCGGGCTGACC
GGCTTTACCGTGTCCAACCTCAATATTCGCCGACCTCAAACAGCCGTGGGAACAAGACTAC
GGCAAGCCGGAACATATTTCTCGCCGCTGGACATCATGATTGAAGGCCGATCGCGCGC
GCGCGGTTCAACAACGAATTCGCGCGCCCAACCTCTTGGGCTACTTCCGCACTTTTGAA
GAAAAATTTGACGGTCAGGTTTCGCGGCTATCACAACCGATTATGATTGCCGGCGGCTTG
GGCAGCATTACGGCGCAGCAGACGCATAAAGACGAAATCCCGAAGGCGCATGCTGATC
CAACTGGGCGGCGCGGCTATGCTTATCGGCTTGGCGCGCGCGCGCTTCTTCGATGGAT
ACCGGCACAAACGACGCGCTTTTGGACTTCAACTCCGTGCAACGCGGCAACCCCGAAATC
GAACGCCGCGCGCAGGAAGTCATCGACCGCTGCTGGCAGCTCGGCGGCAAAAACCCGATT
ATCTCCATCCACGAGCTAGGCGCGGGCGGCTGTCCAACGCCCTTCCCGAACTGGTCAAC
GATGCCAGACGCGCGCGAGTATTCAGCTGCGCGAAGTGCCTTGAAGAACACGCGCTC
AACCCTGTCGAATCTGGTGCAACGAATCGCAAGAGCGTTATGTGTGTCGATTTTGGAA
AAAGATTTGGATGCTTTCCGCGCCATCTGCGAACGCGAACGCTGCCGCTTTGCCGTAGTC
GGCAGCGCGACTGACGACGCTCATTTGAAAGTACGCGACGATTGTTGTCGCAACAATCCC
GTGATTTGCGCTTGAACGCTTTCGCTCGGCAAACTGCCCAAAACACGCGCACCGCAAAA
ACGGTTGCACCGTCCAAAAACCGTTTCACGCGGGCGATATCGACATTACCGAAGCCGCC
TACCGGCTTTTGGCGCTGCCGCGGTAGCCGCCAAAAAATTCCTGATTACCATCGGCGAC
CGCAGCTCGGCGGTTTGAACGACCGCGCAACGCAAAATGGTTCGCGCAAAATCAAACTCCAGTA
GCCGACTGCGCGCTTACCATGATGGGCTTCAACACCTATCGCGGTGAAGCGATGCTATG
GGCGAAAAACCGACCGTCGCCCTGTTGATGCGCCTGCTTCGGGCGAAGTGTGCGTCGGC
GAAGCCATCAACAACATCGCGCGGTCAACATCGGAGACATCGGCAACATCAAACTCTCC
GCCAACTGGATGGCGCGTGGCGCAACGAAGGCGAAGACGAAAACTCTACCGCACTGTC
GAAGCCGTTTCCAAGCGCTGTGAGGCATTGGATTGAGCATCCCGGTGGGCAAGACAGC
CTGTGATGAAAACCGTTTGGCAGGACGCGGAGGAGAAAAATCCGTGGTTTACCGTTG
AGCCTGATTATCTCAGCGTTTCGCCCTGTGAAAGACGTACGCAAGACTGTTACGCTGAG
TTGAAAACGTCGAAGACAGCGTATTGTTGTTTGTGATTTGGGCTTCGGCAAGCGCGT
ATGGGCGGTTTGGCGTTTGGTCAGGTGTACAACAATATGAGCGGCGACGCGCCGATTTG
GACGATACAGGTGCTCTGAAAGCCTTTTACAGTGTGATTACGAGCTTGTGCGCAAAAC
AAACTCTTGGCGTATCAGACCGCAGCGACGCGCGGCTTGTGTTGCCGTTTTGGTAGAAATG
GCGTTTTGCGGGCGGTTGCGGCTTGGATATAGATTTAAATTTATGCTTGCACAAAACATTT
ATTACCAACCATACCGCTCTGCTCAATCATTGCGGACTGAAGAGTAAAGCGTTGGCT
GAATGGCAAGAAACCATTTTAAATGAAGAGTTGGGTGCTGTTATCCAA
GTTAGAAAACAAGATGTTGCCGATATTATCAATTTATCTATCAACAACAGCTGCATCAT
AATGTCTTTGAAATCGGTACGTTAACTGATGAGAACACGTTAATCATCCGCGACGGGCAA
ACGCACTTATTCTGACAACTTAATCAAACTGCAACAACCTGGCAAGAAACAGCCAT
CAAATCCAACGCTGCGCGACAACCTGCGCTGCGCGACAGCGAGTTGCGACTGATTGGC
GACAACGAACGCGCATTTGTTGCGCGAGTGAAGTTGACGTTGAACGAAGACATCGCC
GCGCGTTTATCAACAGGGCGGAAACCCAAATCGCCATCCTGCGCGAACAGGGCGTA
AACGGGCAATCGAAATGGCGCGCGCTTTACCCGCGCGGATTGATGCTTACGACGTG
CATATGTCGACCTGATGGCAGGCGCATCCACCTGCGCGACTTCAAAATGCTGGCGCG
TGCGGCGGCTTACGCTACGGCGACGTACTCGGCGGGCGAAGGCTGGCGAAATCGATT

Appendix A

-469-

CTGTTCCACCCTGCTCTGCGCGACCAGTTTGCCGCCTTCTTCGCCGACCCGGACACGCTG
ACATTGGGCGTGTGCAACGGCTGCCAATGGTCAGCAACCTTGCCGAAATCATCCCCGGC
ACGGCAGGCTGGCCGAAGTTCAAACGCAACCTGAGCGAACAGTTTGAAGCAGCCCTGAGC
ATGTTTACGTTCCGAATCAGCGTCGCTGATTCTGAACGAAATGCAAGGCTCCAGCCTG
CCTGTCGTGGTCAGCCACGGCGAAGGCCGCGCCGACTTCGCGCTTCACGGCGGCAATATT
TCCGCCGATTTGGGCATTGCGCTGCAATACATCGACGGACAAAACCAAGTGACCCAACT
TATCCGCTCAACCCCAACGGCTCGCCTCAAGGCATCGCCGGCGTTACTAACGCCGACGGC
CGCATCACCATCATGATGCCCCACCCGAAACGCGTGATACCGTCCCGCGCAATGAGCTGG
AAACCGGAAGGCTGGACGGAAGTTCGCGCTGGTACCGCCTCTTTGCCGGCGCACGTAAA
GCCTTGGGCTAACCGCCCTACTCAAACCAATGCCGCTGTAAGAATATTTCAGACGGCGTT
CCGGCATACCATCTTTTAAACGGTATCCGTCACCGAGGAACACTCATGAAATCACCCC
CGTCAAAGCCCTAACCGACAACACTACATCTGGATGATACAGCACGGCAACCATGCCGCTG
CGTCGACCCCTTCGGAACCTCGCCCGTCTTGGAATTCCTCGTCCGCAACCGCCTCATGCT
TGCCCAAACATGGGTAACCTCCATCCCGACACGAGGGCGGTGCGGGGCACTCTG
GCGGGGTACATGGAATCGCCCGTTTACGGCGAATCCGACATCGAAGCAGCAACCCACAC
CGTAACCGCGCGCACCAATTCACCTTCGCGCAGCGACAGGTTACCGTTTGGGCAACACC
CGGCCACACAGACCGCCACACAGCTACCTTCTCGAAACTTCAGACGGCATACACGTCTT
TTGCGGGGACACCCCTTTTTCGCGCGCTGCGGACGCGTGTACCGGCACAATCGAACA
GCTTTACGACAGCTTCCAACGCTTCAACCGCTGCCTGAAACACCCCTGTTCTATCCGGC
GCACGAATACACCGCGGCAACCTGCGTTTTCGCGCGCCATATCGAGCCGGACAACGCCGA
CATTACAGCGGCACTGAAAGCGCGGCGCATACGCTACCGTACCGCTTACCGTTCGCGCA
CGAACGCGCGTCAATCCGTTTTCGCGCTGACCTGCCGCACGTGAGAGACCGCGCCGA
GGCATTGAGCGGGAACGTTAAACAGCAGCCTCGATACCTTTGTGCGCTGCGTGAAC
TAAAAACCAATACCGGACGAAATAAAAACACGGGAAAACGAGCCATTCTAGGATTTT
ATTAATCTTTAAATAAATCATACAATCATCGCAATAGACGAAAGGACACCGTTGCTT
TATAATCAAACAAAACAAATATATAATATAGTGGATTGAATTTAAATCAGGACAAGGC
GACGAAGCCGCGAGATAGTACGGCAAGGCGAGGCAACGCTGTACTGGTTTTTGTAAATCCA
CTATATTGTTAATCCACTATATAAATCCAGCACAAAACGGGATCGTGATTCTTGTCCGC
AAGAATCGTTGATTTTCTCTATTACAGGATAATCATCATGCGCTTCACACACACCACCC
CATTTTGTTCGCTATTGTCACCCCTCGGTCTTTTTCGCGTTTCCCTGCTTACTCATCCA
TTGTCCGCAACGATGTCGATTACCAATATTTTCGCGACTTTCGCGAAAATAAGGCGCGT
TCACCGTAGGTGCAAGCAATATTTCCATCCAAGCAAGCAAGGCAAAATATATAGCAGGG
TTCTCAACGGCATCCCCATGCCGACTTCCGCGTCAAGCAACCGCCAAACCGCCATCGCCA
CCCTGGTTACCCCCAATACGTCAACAGTGTCAAACACAACGTCCGCTACGGTTCCATAC
AATTCCGCAACGACACCCCAAAATCCAGAAGAACAAGCCTATACCTACCGCCTCGTATCAC
GCAACCCGCAACCCGACTACGACTACCACTTCCCGCCTCAACAACTGGTTACCGAAA
TCTCACTACCGCACTACGAGCGTACCTTGTCTGGAACCGGCCAGCCAAAGGCCAATG
CCTACCTCGATACGACCGCTTCCCTACTTTGTACGACTCGGCTCAGGCACGCAACAAG
TCCGCAAGCAGACGGCAGCGGTACACGAACCGCCCGGCATACCAATACCTGACCGCG
GCACGCGCTGAAAGTATTTGGGGTTCCAAACACACGGCTTACTCGTCCGGCGCAGCCTGA
CCGACCAACCCCTTAACACCTACGCAATCGCCGAGACAGCGTTCCCCCTGTTTGCCT
TCGCAAGCATGAAAACCGCTGGGTGCTTCCGGGCGTACTCAGCACTACGCCGGCTTCG
ATAATTTCTTCAACAAATACATCGTCACGCAACCCGAATTCATCCGTTCCACCATCCGCC
AATACGAAACCCGGCTGGATGTCGGGCTGACCAACCAAGCACTCATATGGCGCGACAACG
GTAATGGCAACAGCACCTTGCAGGGCTCAACGAACGCATCACCTGCCCATTGCAAAAC
CTTCGCTTGGCCCAAAAACGACAGCAGGCACATGCCGTCTGAAGATGCCGGCAAAACGC
TCATCCTATCCAGCAGGTTGACAAACAAACACTGATGCTGGCAGACAATATCAACCAAG
GCGCAGGCGCATTCAGTTCGACAGCAACTTACCGTTCGCGTAAAACACACATGGC
AAGGTGACGGCGTTATCGTAGCCGACGGCAACCGCTTCTTGGCAAGTCAGCAACCCCA
AAGGCGACCGGCTTCCAAACTGGGCGCAGGCACGCTTATCGCCAACGGACAAGGCATCA
ACCAGGGCGACATCAGCATCGGGGAAGGCACTGTCTGCTCGCCCAAAAGCTGCTTCAG
ACGGCAGCAACACAGCATTTCAACCAAGTCGGCATCACAGCGGCAGGGGCAACCGCTCC
TCGCGCAGACCCAGCAATCAAACCCGAAAACCTCTATTTGGCTTCAGGGGCGGACGGC
TCGACCTCAACGGCAACAACTTGCTTTACCCATATCCGCCATGCGGACGGCGGCGCGC
AAATCGTCAATCAACCCGTGACCAAGCCGCGACACTGACGTGACCGGCAACCCGCTCC
TCAGTCCCGAGCATGTGCGAGTGGGTGCAATGGGGCAACCGTCCGCAAGGCAACCGGCGG
TTTACGAATACATCAACCCGACCGCAACCGTCCGACCGACTACTTCATATCAAAACCG
GCGGCAACCCGCGCAATTTTCCCGTTAAATATGAAAACTCAACAAGCTGGCAATTTA
TCGGCAACAACAGGCAACAGGCCGCCGAACAAGTCGCCAAGCCGAAAATGCCGCCCG
ACCTGATTACCTTCGGCGGATACTTGGGTGAAAACGCGCAACGGGCAAGCGCGCGCGA
GTACAGCAAAACCAATGAAGCAGCCATAGAAAAACCCGCCATATCGCAATGCCGCCG
TATACGGCGCGCCGAAATACCGTTACAACGGCGCACTCAACCTGCACTATCGTCCCAAC
GCACCGACAGCAGCTGTTGCTCAACGGCGCATGAACCTTAACGGGGAAGTCTTGATTG
AGGGCGGCAATATGATTGTGTCAGGCAGGCCGTACCCATGCCTACGACCAACAGGCCA
AACGCGAACCCTTCTTGAACGAATGGACCGACGGCAGCTTCAAGGCTGCACGGTTCA
CCCTCGGAAACCATGCCGACTGACGGCAGGGCGCAATACCGCGCATCTGGACGGCGACA
TAACCGCATACGATCTGTCCGGCATGACCTCGGCTTACCCAAGGCAAAACACCGGAAT
GCTACCGCTCCTACCATAGCGGCAGCACCCACTGCACACCAACGCGTTTTTAAAGCCG
AAAATATCGTGCACTGCAACGCAAGTACGCGCGACATTACCTTAACGACCGTT
CAGAGCTCCGCTGGGCAAGCACACCTGTACGGCAGCATCCGTGCCGGCAAGACACCG
CAGTCCGCTAGGAGCAGCAGCACTGGACACTTTCCAGTCCAGCCACACCGGCGCAC
TGACGCTTACGCGCGCAAAATACCTTGAACCCGATTTCGCCAATAATACACACAACA
ACCGCTTCAACACACTGACCGTCAACGGCACACTTGACGGGTTCCGACATTCGATTCC
TGACCGGCTCGTCCGAAACAAATGCCCGCCCTCAAACCTGGAAGGGGACAGCCGCG
GCGCATTCAAATCCACGTCAAAAACACCGGACAAGAACCTCAACAACCGAATCGCTTG

Appendix A

-470-

CACCTTGTGAGCCTCAATCCGAAACACAGCCACCAAGCCCGATTACCCCTCCAAAACGGCT
ATGCCGATTGTTGGTGCCTACCGCTACATCCTCCGCAAAAACAACCGGATACAGCCTGT
ACAACCCGCTCAAAGAGGCCGAACCTTCAATTGAAGCCACGCGTGCAGAACATGAGCGCA
ACCAACAGGCATACAACCAATTACAGGCAACCGACATCAGCAGACAGGTTCAACATGACT
CTGACGCGACCAGGCGAGGCACTACAGGCTGGCAGAACAGTCAAACCGAAGCTTGCCTGCA
TCGACAGCCCAAGTCCAATATCTGTCCGCCCAATTGAAACAGACAGACCCGCTGACCGGCA
TTCTGACGCGTGCCCAAAACCTGTGTGCCGCACAAGGATACAGTGGCGATATCTGCCGTC
AGGTTGCCCAAAGCCGCGACACGAAACGACCTGACACTCTTCGAAACCGAAGCTGGATACGT
ATATAGAACGTGTAGAAATGGCCGAATCCGAACCTTGACAAAGCAGCGCAAGCGCGCGATG
CGCAAGCCGCTCGAAACAGCCCGGCGACGCTACCTGAACGCACTCAACCGTCTGTCCCGAC
AAATCCACAGTTTGA AAAACCGCGCTTGCCGGCATCCGTATGCCGAACCTGGCCGAAGTGA
TCAGCCGGTTCGGCAACACCGCCGTTTCCGAACAGGCGCCCTACAATACCGCCGGCAAC
AGGCGGCGACGCCGATCGACCGCCACCTTACCGATCCGCGAGCAGAAAACATCTGGCTGG
AAACCGGTACGCAACAAACCGACTACCATAGCGGCACACACCGTCCCTACCAACAACTA
CCAACTATGCAATATCGGCATCCAAACCGGCTACCGACCGTCTCAGTGTGGTACGA
TTTTAACCGATGAGCGCACAACACCGTTTGTATGAAGCGTATCCGCCGAAACCGCA
GCAACGGCGCACATCTGTTCTGCAAGGGGAAAACGGCGCACTCTTTCGCCGGCGAGATT
TAGGCTACAGCAACAGCCGCTACCGGATTACCGATTATGACGGGGCTGCCGTCCGCCGCC
ACGATGGGATGACGCGATCAACACCGGCTCAAAATCGATACCGCATCAACCTCAGAC
CCTATGCCGGCATCCGTATAAACCGCAGCAACCGCAACCGGTACGTACTCGACGGCGCAG
AGATAAACAGCCCGCGGCAAAATCCAAACACATGGCATGGCGCATCCGTCTCGATAAAA
CCGTGCAACTGGGTCAAGCCAAGCTGACCCCGCCTTCAGCAGCGATTACTACCATACCC
GCCAAACAGCGGTTCCGCCCTCAGCGTCAACGACCGTACCTTACTGACAGAACGCCGCC
ACGGCACACTGCATACCTGCAATCGACGCCGATACAAAGGCTGGAACGCCAACTTC
ATGCCGCTTACCGCAAGAGCAGCAACACCGCCGCCCAACAGGCGAGGAATCAAAATAG
GCTACAACTGGTAAACAGCGGATAAAATGCCGTCTGGAACCCGCGTTTCAGACGGCATT
TGCGTTAAAAATAGTAAACCGTTCCAAAAGGGAGTAGAATAGTGGCGTTTCCAACCGTGC
GCCGTGACCGTCAAGCTTTTATTATGGACCTTCCAGTTCTGTTTTACTGAACACCCCAT
CCGATTCAAACCGCAATAACCATCCCGCGGAATGCCTCCCGCACACGGCGGGCGGAG
CATTTATGAGCATCGAACCAACCCCTCCGAACCTGAAAACGACGGTATCGAAAACGATG
TAGAACGCGTTTCCGCCGATTTCGACCGTGTCCACTCCCTCTGCGAAATCCTCGAACCTG
CTTTTGAACAAATCGAAAACGGTACACCGCTCGAAGACGCGCGCTGCGCGACAAGCTGA
CCGAGCTGACCGTCTCTTGAAGCGAGCTGCACCTGCGCGAGTGGCGGCGGTATTGGAAT
CGCTACCGCCGCGCAACGCAATATCGTCTGGATTCTGGTCAAACCGGAAGACGACGGCG
AAGTATTGCTGGAAGTATCCGACGCGGTCGCGCAACCGTATCGAGTTCGATGGACAAAG
ACGAATTGTTGGCAGCGGTGATGATTGACGCGGACGAATTGGCGGAAGTGGCAGACG
ATTTGCCGCAACAGTGGTTTACGAAGCGCTACAAACCCGCGATGAGGAAGAAGCGCGCC
AAGTCAAAGCGGCAATGTCTACGAAGACAACCAAGTCGGTGCAGATTATGGAATTGAGT
TGGTCAGCATCCGCGCGGATGTGCGCTGTGAAGTGGTGTGCGCTATCTGCGCGGCTTCG
ACAGCTGCCCCGACCATACCGACAAGATTTTGTGGTTCGATGAAAACGACGTAAGTGCAGG
GCGTGTGCCCCATCCGCAAACTTTTGGTCCCGATCCCGAAGACTTGGTGGAAAACGTGA
TGGCGAAAGATGTCGTGCGTTTCCGCGCCGAAGATGACGTGGAAGAAGCGCGCAGGCGT
TTGAACGCTACGACTTGGTTACCGCGCGCGTCTGTCGATGAAAACAAAAGCTCATCGCA
GGATTACCATCGACGAGATGGTGGACGTGATCCGCGAAGAAATCGGAAGCGGATATGCTGA
ATATGGCGGGTTTTCAGGAAGAGGAAGACCTGTTCCGCCCGGTGGGATTTCGGTGA
ACCGCTGGATGTGGCTCGCCGTCAACCTCTGCACCGCTTCCCTCGCGACCGGTGTTATCG
GCGCGTTTGAAGGCAGCATCGAAAAATCGTCGCACTCGCGCGCTGATGCCCATCGTCG
CCGGCATAGGCGGTAACTCGGCAACAGACGATTACCATGATTGTCGCGCGATGGCGA
TGGGGCAGCTGACGGATATGCAAGCGGGGCGTTTGTGAAAAAAGAAGTCGGTGTGCGCT
TGGTCAACGGCATCATTTGGGGAACGGTCATGGGCGCAGTATCTTGGCTGCTTTACGGCA
GCCTCGGCATCGGGCTGGTTATGATTGCCGCGATGACGCTCAACCTCCTGCTGGCGGCA
CCGTCCGCGTATTAATCCCGTGGTAATGGAAGAAGTTCGACGCGATCCCGCACTGGGCA
GCTCGGTGCTGATTACCGCGTTACCGACTCCGGCGGCTTCTGATTTTCTGGGGCTCG
CCACCTTATCTGCTTTAAATGCCGTCTGAACCGCGCAAAAATGCCGTCTGAAGCGGA
AGCTGCTTCAGACGGCATTTGACTATTTATCCTTGTGCAAGATTATTGGACGGTATG
CCGGGGCAGCCCTTGGCAACGCGGACACATCCTCCCCGAACAGCGGCTGACATCGGT
TTCGTCAAACACATATTTGCTGTGGCAGAAATCGCAATCGACTTCGATGCTGCCTTGTTC
CACCACCAGCGCGCGACTTCTTCCCCGCCAGCATCAACAGCATATCGCTGACTTTGCC
GCGCAACAGGTGCATGAAAATTCAAACGTTTCCGGCTCGAACACGCGCGGCGGCGTTTC
GTGGAACAGGCGGTATAAAACGTTGTGCGGTCCAGTCTGCCAGCTCCTCCGCCGTGAG
CGTGCGCGCGAGCTACTGACGTGTTCCCATGCCCTCTTCATCCAATACCTCTTCAGGCAG
ACGCTGACCAAGCAGACCGCGCGGCTTTCGTGCTTGCAGACAGGACGATGTGCGTATC
AAGCTGTTCCGAACGTTTCATATAGTTACCAACATTTGCGCGATACCGCGGCTTCCAA
AGGCACTACGCCCTGCCAGGGTTCCCGCTTTCGGCTGACGCGTACGACGAATACGCC
GCCCTCGCCCAAAGGTCGCCGAGGCTTTCGTCTATCGGCTATTTCTGCGGTTTCGTCCCA
ACGCGCGGTTGCGACGAGGACGCTACGGTTCGGAAGCGCTTCCGCAACCGCATTTTCAGCG
CCCCCGCCCTGAACCTGCACAATCAGCGTGCCTTCGTTTTGAGGTTGCCCGACAGCAA
CACACCGCGCGCAACAACTACCCAAAGCGCGCGGATGGCGCGGGATAGTTTTCTG
TTTTACATGTGCTGCCACAGCTTTTCAGACGAGCTGACGCGCGCACGGGCATATC
GTCGAAGATAAAGCGGTACGCACATCGGCGGCTGATGGCGGTTTGATTTCATGATTTT
CTCTGACTGATTGTTTCGGATGGCGGTATATGGTTGCGGTCGGCGCGAAAACAAGACGGA
CGGCGGATGCGCTTCCAAATTATCAATAAATTATATAAAAATCAACATATTAACCTCAAT
CTAACAAAGCGGTTTTTTGCCAAACAGCGGTTTTTTTTATATACAATCAACAAGATATTTT
GACTGATACAGCATAACTCGCACGGCGGACGATGCCTCTGCGCGGAAACACCGATAT
GGATTCTTTTTTCAAACCGGCAGTTTGGCGGTTTTGTGGCTGATGTTGCCGTCCGCC

Appendix A

-471-

CGCCCTTGCCGACGAGTTGACCAACCTGCTCAGCAGCCGCGAGCAGATTCTCAGACAGTT
TGCCGAAGACGAACAGCCCGTTTTACCCATCAACCGAGCCCGCCGCGGGCGGGCAA
TGCCGACGAACATCATCGGCAGCGCGATGGGGCTTAACGAACAGCCCGTTTTACCCGTCAA
CCGAGTCCCGCCCGCGCGGGCGGGCAATGCCGACGAACATCATCGGCAACGCGATGGGGCT
TAACGAACAGCCCGTTTTACCCGTCAACCGAGCCCGCCGCGGGCGGGCAATGCCGA
CGAACTCATCGGCAACGCGATGGGACTTTTGGGTATTGCCCTACCGCTACGCGGCACATC
GGTTTCTACCGGTTTGTACTGCAGCGGCTTCATGCAGCACATCTTCAAACGCGCATGGG
CATCAACCTGCCGCGCATCGGCGAGAACAGGCACGGATGGGTACGCGGTTGCCCGAAG
CGAATTGCAGCCCGGAGATATGGTGTTCCTCCGACGCTCGGCGGCGAGCCGATTTCCCA
TGTCGGACTTTATATCGGCAACAACCGCTTCATCCACGCGCCGCGCACGGGAAAAATAT
CGAAATCACCAGCTGAGCCACAAATATTGGAGCGGCAAAATACGCTTCGCCCGCCGGGT
CAAGAAAAACGACCCGTCCTGTTCTGAACTGATTTCCCAAGGAATACGCAATGAGTAT
GCCCGAAATGCCCAAATGGTACGACGATGACGGACAGATCGTGTCTGTACCGAAAAGGT
CAAAGTATGTTCGCAAAATATGGCCGAGCTGTATCAGACGCGACAAAGACGCGTTTGAAGA
CGCGCTGCTGATGGGTTGCGGCGAACGTGAGTTGCGCGATTACCTGCTCGCGCTGATTGA
AGGTTTGGAAAAATCCCTACCGCAAGTCTGAACACGCCCCGGTTGCTGCGGCACGGTTTA
TCCGTGCCGTTTTTGGCTTTGTGCGCGGCTTCGGCTTTTCAGACGGCATATTTGACGTTA
TGATTAAACAGTTAAACAAGATTTATCACAACGCCGTCAAAGACAGACACACAACATGAA
CATCATCCGCGCGCTCCTCATCATCTCGGCTGCCCTCGCCACCGCGGAACCGCGCTTTT
CCTAGCAGGCATCAAATGCCCGGCGAGCATCGTCGGCATGGGCGTGCTGTTTGGCGTTTT
GCAGGCGGTTTGGGTTCGCAAAATATGGCCGAGCTGTATCAGACGCGCAAGACGCGTTGCGAA
CCTGACGCTGTTCTCTGTCGCCCGCTGCGTGGCGGTTCATCAGCTATTTGGATTGATTGC
CGACGATTGGTTTTCTGATTAAGTTCGCCCTCCGCCAGCACTTTGTGCGTACTGTGGT
TACGGGCAAAGTCCACCGGTGGATACGGGGTATTATCCGATGAACGAAATCCTCAGGCAG
CCCAGCGTTCTGCTTTTCTCAGCTTGCCTGTACGCGCTTGCATTATCGTCGCGCAG
CGCACGGGCAATATCTTCTGCAACCCCGTACTCGTCAGCACTATCGTGCTGATTGCCCTAC
CTGAAAAATCCTCGGTATCGATTATGCGGTGTACCAACGCGCGCAATTCATTGATTTT
TGGCTGAAACCCGCGCTGCTGCTGCTTGGCTGCAACAGCTTACCGACGCGCTGATGTCGAA
TTCACACAGTGGCTGCCCGTTCATGTTTACAGCTTGCAGGCGAGCTTACGGGCATTGTT
ACAGGGATGATTTTGGCAAATGGCTGGGCGCGGAACGCGAAGTCGTCTCTCGCTCGCG
TCCAAATCTGTTACCAACCCCTCATGATTGCGGCTGCGTGGGACAGATTGCCGGTTACAAA
GCCATTACCGCGCGCACCGTTCATGTTGCGGCTGCGTGGGACAGATTGCCGGTTACAAA
ATGCTGAAGAACACGGTCTGTCATGCCCTCGTCCGTGGGTATGTGCTCGGCACGGCTTCG
CACGCGATGGGATTGCCCGCTCGCTCGAACGCGAGCCCGGTATGGCGGCATACGCGGGG
CTGGGGCTGACGTTCAACGCGTACTGACGCGCTGATTGCGCGCTGCTCATCCCCGTT
TTGGGATTTTGAACCGTTTTCAGACGGCATTTACGCCATGCTGTCTGAACGCCGACACA
CTCGCAAGGAGAACCGTTATGGCTGTCAACCTGACCGAAAAACCGCGCAACAACTGCCC
GACATCGACGGGATTGCCCTCTACACCGCCCAAGCAGGCGTGAAGAAGCCGGGCATACC
GACCTGACACTGATTGCCGTAGCCGCGGCGAGCACCGTCCGTGCGTCTTACGACCAAC
CGTTTTCTGTGCCGCGCCGTCACATCGCCAAATCGCACCTTTTCGACGAAGACGCGGTG
CGCGCCCTCGTCATCAACCGGCAACGCCAACGCGGTACGGGCGCACAGGGCAGAATC
GATGCTTTGGGCAAGTGTGCGCGCGCGCGCGGCAATCGGCTGCAAAACCGAACAGGTG
CTGCCCTTCTCCACCGCGGTGATTCTCGAACCGTGCCTCGCAGACAAAATCATCGCGCC
CTGCCCAAAATGACGCTGCTTCTGGAACGAAGCGGCACGCGCCATCATGACACCGAC
ACCGTGCCCAAAAGCGCGCTCGCGGAAGGCAAGGTGCGGCGACAAACACACGCTCCGCGCC
ACGGGCATCGCCAAAGGCTCGGGCATGATTATCCCAATATGGCGACCATGCTCGGTTTC
ATCGCCACCGATGCCAAAGTTTCCCAACCGTCTCCAACTGATGACGACGAAATCGCC
GACGAAACCTTCAACACCATACCGTTGACGGCGACACCAAGCAGACAGCTTCGTC
ATCATCGCCACCGGCAAAACAGCCAAAGCGAAATCGACAAATCGCCGACCGCGGTTAC
GCCCAACTCAAGAATTTGTGTGAGCCTCGCGCTCGAACTCGCCCAAGCCATCGTCCGC
GACGGCGAAGGTGCGACCAAGTTTCATACCGTCCGCGTGAAACGCCAAACCCGCGAC
GAAGCCGCGCAAGCGCTACGCCGTGGCAGCTTCGCGCTGGTCAAACCGCTTTTCT
GCCTCCGACCCCAACCTCGGCAGGCTGCTCGCGCCATCGGTTATGCCGGCTTGGCGAC
CTCGATACCGACCTCGTGGAAATGTATCTCGACGATATTTGGTTGCCGAACACGGCGGA
CGCGCCGCAAGCTACACGAAGCACAAGGCGAGGCGGTGATGTCGAAGCGCGAAATCACC
GTCCGATCAAGCTGCATCGCGGACAAGCGCGCGCACCGTCTATACCTGCGACCTGTCG
CACGGATACGTTTCCATCAACGCGGATTACCGTTCTGACCCGACAGGCTTCAGACGGC
ATACATAAAATGCCGTCTGAACCGCGGACAACATACCATGACCTCCACATTTCCCGGCC
GCCTCGCCCGCAAAATCCGCCAAACCGCGCGCTGTCGCGCAAAAGCATCGCTTTCTGT
TCCTTTTGGCAGTTTCGGCACTCGTCGCCCTGACGCGCTGTTTTTGGCCATCTTGCCG
ATTTTGGCTGGAATGAACGCCAAACTGGTTCAACAATACCCGTGGTTCGCGTGGGTGCG
CGCTTCCTTTGGGTTTACCGCTTATGCGTGGCTCACACGCAAAATCGCCCCCTTACCG
CCGGCAGCGGCATCCCGCAGGTCTATCGCTCACTGTCGCTGCCCTACGGCGCACAGAAAA
CGCGGCTGATCCGCTCGGGCAGACGCTGCTGAAGATTCCGCTAACCTTTTGGGTATGC
TGTTTCGGCGCTCCATCGGACGCAAGGTCCGTCCGTGAGGTGCGCGCGGAGTGATGG
GCGCGTGGGGCGCGTGGTGAAGAAACACGGCTTGGCATCAAAGGATGACAGGAAACG
ATTTGATGGCGGGCGCGCGCGGGCGGTTTGGCAGCCGCTTCAACGCGCGCTGCGCGG
GCGTGATTTTCGCCATTGAGGAACTCGGGCGCGGCATCATGTTGCGCTGGGAGAGGCAAA
TTCTTTTGGGTTTGGCTTCCGCTTTCATACAGGTGCGCATTCAGGGCAACAACCGT
ATTTTTCGGCTTCAACGCGCGGCTATTGGAACATATCTTCTGTGGGTGCGACTGTCCG
GCCTGGTTTGGCGCGCGCGGGCGGGCTGTTTCGGACGTTTGTCTATCGCGGTGCGCGG
CGTTTGCACCGCGCAAGATACGCGGCTTCATCCGCAACCGTCCGCTGCTGCTGGCGCAC
TGATGGGGCTGCTGCTCGCCCTGCTCGGCACGTTTACCAAGGCAAAACCTACGGCACCG
GCTACCAAGCAAGCGCGCCAGCCCTGCACGGCATCTACGAAGCCCCCTTCGGACTCGCGG
CCGCCAAATGGCTCGCCACCGTATTACGCTATTGGGCAGGCGTTCCGGGCGGCATTTTCA

Appendix A

-472-

CTCCCTCGCTGACCATAGCGCGGTTTTGGGCGAGCATATCGCCGCCATCGCCGACATAT
CGCAGGGTGCAACATCATCGTCCTCATCTGCATGGCGGCATTTCTGGCGGGCGCGACAC
AATCCCCGATTACTTCCGCGCTCGTCGTCATGGAATGACGGGCGGACAAAGCCTGCTGT
TTTGGATGCTAATTGCTGCTGCTTTTCGCCTCGCAGGTTTCGCGCCAGTTTTTCGCGCGT
CGTTCTACCACGCATCGGGAATGCGCTTCCGCCAGCGCGTCTCAAGAAACCGCGCCC
AAACCGGCAATGCGCCCGCAAGACCGCAACAGCAAAACAGCAAAACGGGAATGCCGTCTG
AAAATTAACACGCCCCGATCAACGCGCGGACCGCCTTGATTGAATACCGTTCCGCC
GCCGCTTGAAATTTAGCAACAATGCCGTCTGAACGACAGAATGCGGTTTTTCAGACGGCA
TTTCCCCATCCCCGATATTGCTTAAACAAACCGAAGCGTTTGTATATTTCTATTTTTTA
CCGCATACGCACCAATCATGTTTCCCGATTCTCTCCAAACCTCTCCAAAGACCGCCACT
TCCTGCGTTCCGCTTCAAAAATCCCAACAATACGGCGGTTTGTCCAAATCGAAGAAA
AATACCGAAAATCGCACGAAATCTTTTGAAGCGTTTGGCAGCCTTGCCAAAACCGAAT
TCGACAAACCCCTGCCCGTTACGAGAAGCTCGAAGAAATCAAAAAGCCATTGCCAAGA
ATCAGGTAACGCTTCTCCGCGAAGACCGGTTTCGGGCAAAACACGAGTTGCCCAAGA
TTTGCTTGAACCTCGGGCGTGGGCGGCAGGATTGATCGGGCATACCCAGCCGCGCGT
TGGCCGCGCGCTCCGTAGCAGAGCGGATTGCCGAAGAGCTGAAATCCGAAATCGGCAGCG
CGGTCCGCTATAAAGTACGCTTACCGACCACACCTCGCGCGATGCCTGCTCAAGCTGA
TGACCGACGGCATCTGCTGGCGGAAACGAGACCGACCGTTATCTCGCCGCTACGACA
CGATTATCATCGACGAAGCGCAGAGCGCAGCCTGAACATCGACTTCTTTTGGGCTATT
TGAAACAACTCTGCCGCGCCGCCCGATTGAAAGTCATCATCACTCGGCAACGATAG
ACGCAGAAGCTTCTCCGCGAAGACCGGTTTCGGGCAAAACACGAGTTGCCCAAGA
CGTATCCCGTCGAAATCTCTACCGACCGCTGACCGGCAAGACGAAGACGACGAGAAG
TGGAGTTGACCGACGCGATTGTCGATGCGCGGACGAATTAGCGCGACACGGCGAAGCG
ATATTTTGGTATCTGCGCGGCGAGCGGAAATCCGCAAACTGCCGAAGCCCTGCGCA
AATCCACGCTGCGCGCAACGACGAAATCTGCCCCGTGTCGCACGCTGTCGCACGCG
AGCAGCACAAATCTTCCACCCCTCAGGCGCAAGCGCGCATCGTATTGGCAACCAAG
TCGCGCAACCTCGCTTACCGTGCCGGGCATCAATACGTCATCGACACCGGCTCGCGC
GTGTTAAACGCTATTCGCGACGGCGAAGTGAGCAGCTTCATATCGAAAAATCTCC
AAGCCGCGCGCCCAACGATCCGCGCGTGGGACGCGTCTCCGAGCGTGTGTATCC
GACTGTTTTAGAGAAGATTTTAAACGCGCGCCGAAATTTACCGACCCGAAATCGTCC
GCAGCAACCTCGCGCGCTATCTGCGCATGGCAGCATTGAACTCGGCGATGTGGCG
CATTCGCTTTTGAAGATGCCCCGATTACCGGTATATCAATGACGTTTTAGGTGTTGT
TGGAGTTGGGGCGGTGGAGGCGCTCTGAAACAGCGAGACATAAAGAAAATCCCGTA
GAGTGATGTAACCTTACCTTGCTTAAAGTAGAAAATGGTGGGTTTACGTCCCCC
TGCGGCTACTAAAAAATATAAGAGTAACAACCTTTTGAAGAAAATGTATGGACGA
AATTCAAATACCAAAAAGTGAATTACAAACCAACTAGAAAATGAAAGATTGTTTT
ATCGAAGGTTCTACCACGATTATTGTTGGTGCTAATGGCAGGGGAAACAGATTAGC
TGTTTATATTGAAGACAAATTAAGGAAAAGCACACAGAATTTCCGCTCATAGAGCATT
AAAATTAACCCTAATGTCAATAAAATACCAGAAAAGAGTGCCAAAACATATCTATCTTA
TGGTCAGAACTGGGATGGAATCGATGTATCAAATAGAAAAATATAGATGGGATAATAA
CTCATATACTCATTACTCAACGATTTTGATTGGTTATTACAATATTTATTCGCTCAACA
AAATAATTTGCGGTAGCAATAATCAAAAGCTCAACCGTAATGAAAAGTAACCAATTC
AAAAACAAGCTAGATATTTGCAAGAAGCATGGGAACATTATTACCACACAGAAAATT
ACATATTACAGCAGATGATTTCAAGTCTCTGCTGTAGATAATGAGGAATTGTATTCTGC
CTCAAATATGAGTGATGGAGAGCGAGCACTTTTCTATATTCTGGACAAGTTTGTGAGT
AGATGACGGTTCTGTCTTAATTTTGTATGAGCCTGAATTACATATTCAATAATCAATTAT
TTCAAATCTATGGGATAAAATGAAGAATTACGACCTGATTGTTTCTATCATATTAC
ACAGCATATTGAATTTGCTGCAACTCGAGTAGCTAAAAAATATGTTATCAGAAATTATTA
TCCGACCCCTGCTTGGGATATTTCTGAAGTTCTGAAAGTAATTTTGTATGAAGAAACAA
AACGATGATTTTAGGTAGCCGTAAGCCAATATTATTGTTGAGGGCAACAATAAGTTT
AGATATTGCTACTTACCGCTATTGTTATCTGATTGGACCATCATACCCAAAGGGGCATG
CAAAGATGTCAATCATGAGATATCATCGCTGAAAAAATTAAGTAATGAAATGCCATTACT
AACTTAAATGTTACGATTATGTCGATTATGATAGTAGGGATGAAAGAGAAATTGAACA
ATTAAATAATTTGGGTATTACATTTACCTGTATCCGAAATGAAATCTTTTAGCTT
AACTGATGTAGCAAAAGAGATTGAACTAAATCAATATTAGATGAAGAATTACTCAA
TAAACTTAATGGATTTAAATCCGAACTAATTAATATATAGATAATGAATTAAGACGA
TAAATTAGACGAATTTGTTGTAACAGGTTTCGACGTAAATGATAATTATTAATAA
TATTGATTTATCTCCAAATAACAAGTACTGATATGAAAAATCATTACTTAATGAAAT
TTCTACTTTAACAAGACAGAAAATTGAAACATGGATTTAGAAAATTAATAAGAAATCA
AAGATGTATTGAACAGCAAGATTTGGATAAATTACTTACTATATGATAATAAAGGACT
CTTGGCTAAATCAGCTTGTGTTTTAAAGGAATGCGTAACAAACATGAATTTGAAAGCTG
GATAATGAGAACATTAAAGGAAGGAATAAAGATTTATTGATGCAATCAGACAGAACT
TCCAATTTGGATTAAATAAAACCATCTGAAAATTTACCTTCAGATACAGATATATTTCA
TGAAAAATCATCAACTACACTCTTTCCCTACTTCGAGTAGCCTGAAACCTTGCGCAG
ACAAACAAGGCTGTCTGAAGACCGCAGCCAATACCGCCTGACCAACTCGGCGAACAAA
TGGCGCACTGCTTACCGCCGAAAATTTGCGCGTATTTGTTAGTATTATCCGTTTTT
AAAAATGCCCGATTGCGGTTATCAATGACGGTTTTCAGGTATTGCTGGAATGGGGGC
GGTGGAGGCGCTGAAAAATAAATCTTTCTTTATAAAAAGGCAGGCCATGTTTCAATTT
CAGACGGCTAATAATCTTGAAGAACTAAAACTAATAAAGGGAATTGGGTTTTAAA
ACTCAATCGGTAATTTTTATTGTGAATATTAATGATGAAAAATCTTCTTACGCTT
GTTCTGTATTGCTCTTACTTACCGCCAGCGAAATGCTTATCGCTTGTATTGGGATT
GAAACCTTACCGCGGCAAAAATTTGCGGAAACGTTTGGCTGACATTGTGATTGCTGCG
CTGTATCTGTTTGGCGGTTATAAGGTGACGCGTTTGTGATTGCGGTGTTTTTGGCTTC
AGCATTATTGCCAACAATGTGCATTACGCGGTTTATCAAAGCTGGATGACGGGCATCAAT
TATTGGCTGATGCTGAAAGAGGTTACCGAAGTCCGCGAGCGCGGTGCGTCGATGTTGGAT

Appendix A

-473-

AAGTTGTGGCTGCTGTGTTGTGGGGCGTGTGGAAGTCATGTTGTTTTGCAGCCTTGCC
AAGTTCCGCCGTAAGACGCATTTTCTGCCGATATACTGTTTGCCCTCCTAATGCTGATG
ATTTTCGTGCGTTCGTTCCGACACGAAACAGAGCACGGTATTTCCGCCAAACCGACATAC
AGCCGCATCAAAGCCCAATTTTTCAGCTTCGGTTATTTTGTGCGGACGCGTGTGCGGTAT
CAGTTGTTTGATTAAAGCAGGATTCGCCCTTTAAGCAGCCTGCTCCAAGCAAAATCGGG
CAGGGCAGTGTTCAAAATATCGTCTGATTATGGGCGAAAGCGAAAGCGCGGCGCATTTG
AAGCTGTTTGGCTACGGACGCGAAACTTCGCCGTTTAAACCCGGCTGTCGCAAGCCGAT
TTTAAGCCGATTGTGAAACAAAGTTATTCGCGAGGCTTTATGACTGCAGTGTCCCTGCC
AGTTTTTTCAATGCGATACCGCACGCCAACGGCTTGAACAAATCAGCGCGGCGATACC
AATATGTTCCGCCCTCGCCAAAGAGCAGGGCTATGAAACGTATTTTACAGCGCGCAGGCG
GAAAACGAGATGGCGATTTTGAACCTTAATCGGTAAGAAATGGATAGACCATCTGATTCAG
CCGACGCAACTTGGCTACGGCAACGGCGACAATATGCCCGATGAGAAGCTGCTGCCGTG
TTCGACAAAATCAATTTGCGCAGGGCAAGCATTTTATCGTGTGCAACACGCGGTTCG
CAGCCCCATACGGCGCATTTGTGAGCCTCAAGATAAAGTATTGCGCGAAGCCGATATT
GTGGATAAGTACGACAAACACCATCCACAAAACCGACCAATGATTCAAACCGTATTCGAG
CAGCTGCAAAAGCAGCCTGACGGCAACTGGCTGTTGCTTATACCTCCGATCATGGCCAG
TATGTTCCGCAAGATATCTACAATCAAGGCACGGTGCAGCCGACAGCTATCTCGTGCCG
CTAGTGTGTACAGCCCGGATAAGGCCGTGCAACAGGCTGCCAACAGGCTTTTGCCCT
TGCGAGATTGCCCTTCATCAGCAGCTTTCAACGTTCTGATTACACGTTGGGCTACGAT
ATGCGCGTTTCAGGTTGTGCGCAAGGCTCGGTAACGGGCAACCTGATTACGGGTGATGCA
GGCAGCTTGAACATTTCGAGCAGGCAAGGCGGAATATGTTTATCCGCAATGAGTGGCGTAA
AAACCAATAAAGACAAATTTAGATGATGTCGGGGAAGATGCCCGACCGACAAGACTATGC
AAAATATGAAAACCAAGTACCGGATCAGGCATGGATGCCCGATCCAATCCGGCCAATG
TTTCAGACGGCTGCAAAACAGTTCGGGTCATATCGGTACCAACACGCGTTACCGCCTGA
CCAAACTCGCGCAAGCAGTATGCGCGCTACCCATCGACCCGAAATCGCGCGCATTTGCG
TGCGCGCAAGAAACACGACTGCATGGCGAAATATGGTGATTGCGTCCGCGCTGTGCA
TTCAAGACCCGCGGAGCGCGCTAGAAAGCGCGGATGCCCTCAGCCAAGGCGCAGGAGC
GTTTTACCGACAGCAGTCCGATTTCCTTGCTATCTGAACATTTGGGACAGCTTCCAGC
GCGAACGCGATAAAGGCTTGTCCAACAAGCAGCTGGTGCAGTGGTGCCGCCAATATTTCC
TGTCGCACTGCGGATGCGCGAGTGGCGCGAGCTGCACCACAGCTTGCCCAAAACCGCGA
TTGAAATGGGTTTAAACCAAGGAAGCCGCTTTACAGACGCTCCGGAAGTCAGGCAGC
TCACGTGCTGTGAAAATCGCGGTGACCAAGACCTATCTGTAAACTCAAACAAAAACAAAC
TGGATAAAAAGCAACACCGCGCCCAATCCGCGCCGCAAGGAAGCGGGCTACGAACAAA
TCCACCGCGCCCTGCTCACTGGCCTTATCGCCAACGTCGGCATGAAATCGCCCGACGGTA
ACGACTACACCGCGCGCGCGGCGAGCCGCTTCCACCTTTTCCCGCCTCCGCCCTGTTC
AAGCCAAACCAATGGGTGATGGCGGCAAGTGGTTGAAACACGCGCCTTTACGCGC
GCGAGCTGCGCTTATCCAGCCGAATGGATAGAGCAGGAAGCGCGCACCTCGTCCGCT
ATCATTATTTCCAGCCGATTTGGGAACAAAACGCGCGCAAGTCTGCGCAGCGAAGCGC
TGACGCTTTACGGTCTGACCGTATTGCCGCGCGCCCGCTGTCTTACGGCAAGTTGCC
CCGAAGAGCGCGCAATCTTTATCCGAGCGCGTGGTGGCGCAGGAATGCGATTGA
AAGCGGATTTTTTGTCCAACAACAAAAGCTGATTAAAGAAATTACCGAATCGAACACA
AATCGCGCAAGCAAGCATGTGCTGCTGATGACGAAGCCCTGTTGCGTTTATAACGAAC
GACTGCCGGAATGGCTTGGAAAGACGCGCAAGGCAGCGTTGGGGAAGTGAAGATTCCG
TACGATTTATGAACTGACAAAGCCGAGAGGTGCTGTGAAAATGAGCGCAACGAGTTTC
GTAAAAACAAGCCTAATGGGTCTCGCCAAATGAAATCAGCGCAACACCGTAGGTTGG
TTGAAAACCAACATCAGCCGCAACTGCAAAAACCTGTTGGGTTTGACAATCCAACCTACG
CTGCCCAACAAACACCCCTCCCGCTGGGGGAGGGTGGGGAGAGGGGCAAAACAGTTG
CCGCACAAACCAACTTTTCCGCAACCGCAGCAAAACCTCTCCCTAACCTCTCCCGCAGG
AGAGGGAACAGAGTTCGCGCAGCTTCAACGATTTACAGACGCTCGCTGCAAACTGCG
AGCAACCGCCCTCCCGCTGGGGGAGGGCTGGGGAGAGGGCAAAACAGTTGCCACAC
AAACCACTTTCCGCAACCTCAACAAACCTCTCCCGCAGGAGAGGGAACAGAGTGCTT
CAGCTTCAACGTTTTCAGAGCAGCTGCGTCTGCAAACTGACAGCAACCTCTCCCTCC
CCGTGGGGGAGGGTGGGGAGAGGGCAAAACAGTTGCCACACAAACCAACTTTTCCGCA
CCTCAACACTTTTACAGAGCTTCAAAACCAAAAGCAGCTGCACCCCAAAAAACCGTC
TGAAACCCCTACCCCTCGCGACATCCGCACTTCCAAGCTGGCTCAAACCGCGCGAGC
GCGACAATCCGCGCTGTGTTCTCAGCGCGACGATCTGATGCAACACGCGCGCGCAC
ACATTACCGAAGACAGTTCCCAAAATCTGGCAAAACCGCAGACGCGCAATTCAACTTT
CCTACCGCTTCGAGCCGACCATCCGCTAGACGGCGTGACCATGACCGTGCCGCTGACCG
TCCTCAACCGCTGCACGCGCGTCTGCTGAATGGCTGGTGCCCGCATGATACGCGAAA
AAATCCAGTTGCAATCAAAGCACTGCCAAGCAATCCGCGCATCTGCGTGCCCGTGC
CCGAATTCATACCCAATTTTAAAGCAAAACCCGACCGCAACGCCCCATCTGCCCC
AATCGCCCAAGCGATCCGCAAAACCGCAGGCGACATCCGATATTTCGAGCAAAATCAAC
AAGACGAATGGGCGCGTTCAGGCTGCCGAACACTGCTATTTCAACCTCCGCTATTCG
ACGACGGCGGACAGAGCTTGCCGCGCGCGCAACTGCACGAATTGCAACAAACACTCG
GTCAAGCTGCGCGCTTACCTTCCGTGACAACACCAAGAAATTTAGCGCGACAACGTCA
CGCATGGGACCTGCGCACCTGCCGAATCCATCAAATTCGACGCGGCAAAACACAGC
TCACCGGTATCTCGGCTTACAAAAGAAAAGACGCGCATCGCCCTGCGCTGTTTG
ATACCACAGAAGCCGAGAGCAGGCACACCGTCAAGGTGTCATGAATGATGAAGCTGC
AATTAAGAGAGCAGGTAAGGATTGAACAAAGGCATCCAAGGCTTCAACCAAGCTGCCA
TGCTGCTCAAACACATCAACGCGGACACTCTGCGCGACGACCTCACCAAGCGCTGCG
ACCGCGCTTTATCGCGCAAGACGAGCTGCGCGCAACGAAAAGCCTTCAAGAAACAAA
TCAAACGCGCGCAGCGCTGCCGCGTCAAAGAAGCCTCAGCGCTACCTGACAG
AAACCGCGCGCTTACGCGCAACTCAACAGCAAACTCGGCAAAACACCTTACCCAC
TTCTAAGACTACGCTGCAAAACCTGCTCGCGCGCGCTTCCGACCGCAACCCCGTGGG
CACAATGGCGCGCTCCCATCTACCTCAAAGCCATGACCTGCGCTCGAAAAATACA

Appendix A

-474-

GCAGCAACCCCGCCCGCAGCGAGCCCGCAAGCCGATATCCAAGAGCTGGAACAAATGT
GGCAGGAAAAACAGACAGCCTGATTAAACAAGGTCTCCCATTTTCAGACGGCCTCGCCG
CGTTTAAATGGATGATTGAAGAATTGAGGGTGTCTGCTGTTTCGCGCAGGAATTGAAGACAC
CGTATCCGGTGTCCGTGAAGCGGCTGTTGAAAGAGTGGGAAAAAATTGAAAAATAAAAAA
ACAGCCTGAAAAGTTTCAGGCTGTTTTTTTATTTGACTAATCGAAGTTTCTATATCTAT
TTAAGTCCCTCTCAACTAATCCAAAAGTTAAATCAGCAACATCTTTGGGGGATACGTTTA
AATTTTCAGCAATCTGTTCAATACCAATGCCATCATTTTTTAAATAGTAAGCATTTTAC
GTAATGCGCTTGATATTTTCCCTTTCCATTGGCTCTGGTTTCGATAGTTTCGATATTTTTCT
TTGCAACAAAGGACAAAGATTGTGTATATACATCCTATCAGTAATCATTCTAATTTAT
GCATCCGATATGCTAAGGCAACAAGTGATACACCAAAATCGTCTTTTGATTTTAAATAAAT
TTTCAATAGTGATAGGAACATGACGATATAAGCGTAGTGACGCTCCGGCATTAATAAAG
CTGAAGCAAAGGCATTAGCCTCTTTTCGATAATATCAGAGGTTTCATCTCTGTAATTT
CACTATTTTACATATGTTCCATCTGTATTTATCAGGATTAAGTGCCCTAATTCATGGG
CAGCATCAATGGCTACGTTTCTGCAGATTTTGTGTATTAAAAATACAAATGGATGAT
TTTCATACCAAGTACAAAAGGCATCAATGTCTTTGTATCTAAAGATAATGAAAATACAC
GAACACCTTAACTTCAAGTAGGGTGATCATATTGGAATAGGTTTCATTGCCAAGCCCCC
ATTCTAATCTTAGTTCTTGAGCAGCCTCTTCAGGAGAAATATCAGAAAAATCAGGCAATA
CGGCTTGACTTAGTGTAATTTCTGTCTCGAGCCAGTCATTTAACAATAAAGCCGTAATGC
TATGATTTAATGCTTGTTTTCAAGCCTCTTCGAGGTGCGTGAACGAGCAGGAAAACTTA
CTGCCGAGATTTCAACTCAGGCAGTCTTTCTGTCATTAGTAAAGAAATGAAGTGGAACT
CTAATAAATTTGGCTAATTTAAATCAGGTATTGCTCATCTTTACATAGTTTCTAA
CCTGTGAGCGGTAATACCTAATAACTCAGCTAATTTTGTGCTGACAAACCAGTTTAT
CCAGCGCAAATTCAGTCTCTCAGGATTAATGTCTGCATGATTTATCATTCAAATATATC
CTGCTTTTGTCTTTTCAACCAAAGGCTCATATTTCTCAACAGGTGCTTACGTTCAA
GCTCATCAAAATTTAGTTAAATCAACATCAGCTAATATAATTCGCTGCTTGTACCGAGTTA
TTTGATGACTAACAAACCCTCGGTAAAGATAATTCAAGTTGCACCTTTATATATCTCC
AGTGAACAGCAGAACCCAAAAGTGCACAGTATCAGGCAAACTAGTTTGAATTACGAA
TAGCCTCCTCAATCCCTTACCTTCTGCGGTTGTTCATTGGCATCCCGTGATGCCCTAC
CAACATCTGAAGTAGCAGTAGCCACAATAACTTTTAGTTTCGACATGGCGAGAGACATA
GAAATGCACCACCCGACCAAGGCTCAAGCGTCCAGCCATCTTACTTAAATATACCCCTTA
GAGCAAAATGTAATTTCTGCTTCCGATACATCCCAATGTATTTCTGTCAGATAATGCTG
CTTTGCTGTAATATTTATGCGCAGTAAAGTACATCTCTTAAAGCATCTCTGAGATA
AGTACTTGCTGATTTCACTTAAAGCAATATCACTATTTTGTGCTGCACTATTTCTCCTA
CTTCAATGGGAAGGTTCTGATAATGCAAAATCCACCATAAAAAATTTCTAATTTTATA
CGTAATGTTTACACAATATATCAGGAAATATGAAACGTACAACTATATCTATAAAGCAA
TTAATAAGTAGCCTGCCAACCGTGTCTTATCTTTCGGCACACCCGACCTGCAAAATCAC
GCAAACTTGGAATCCGTGTGTAGGGTGTGTGCGGTACATACGCACGCAGTCTTTTTAAA
CCACAGCCCTTCCCAACTTAAACCAAAGGTCGTCTGAACCCTATTTTCAGACGACCTTTT
GCCACTTTGTAACAAATCTTCCCACCATCTCTCCCCAACATCGCCCCGAACCAGTAA
ACTTCTCATATTTCAACAACTCCTTGGAAGCAAACCATGTCTGGTATCTACCTACCCCGC
CTATTTCCCGCCCATATCGCCGAACGCGGCTGTTGTATTTTCAGCAGGGCAAGGTTCTC
GATGTCGAAAAAATCTCCGCGGGCATTATCGGGCGGAGGTGTGCGGTTTCGGAATAT
TGGGTATAGTTGAAGCTGGATAGTGATTTGTATATTAAGACGAAGGCTGCAATTGTCT
TATATCTAAGAGTGCAACATACCTTAAATTACTATATTGCATAGGCAAAATACAAGCCT
ATAACGAATTGAAACAAAAATGCGCTCTGAAAACATCTTCAGACGGCATTATAAAATCTG
TTCACCTTTTCAGATGAGTAATGTACACCCTTATACAATTTTGTCTACTATGCCCCATAA
ATCCACGGCTAAAGATATCCTTATTATGTCTATGATTTATCGAACGACTTGTAAATCGG
CTTAGCATCAAGTGCCCTATTTCGACTTATCCGAATCGGATAATATTTAGAATGGAAGG
GGCAGAAACCTATAGGCAATATCAGAGAGAAAAACAAACCATCCCTAAAAAAGGCGTT
GTCTTTCCATTTATTAATAAATCTTGTCAATCAATGAAATAAACCCAAACGACCCAAACG
ATTGGGTTTATCTTTTATCCAGAAACAATCCAGATACAGATTACGAGTCATAACTATAG
GCTTAATATTACAGATTTCTCATTTCCATCAAGGCGGAAAAACGACAAATACTGAAACAC
TATCGATCGATTGTAAACAAGCCTACTTAAGTAACCTGCAGTCTTATCATTTCTTTA
AAATAATCCAGCCCGTCTACACGAACCTGGCGGACTTCTTGCAATAAAGGTTACTAGA
TTTTCAATTCATTTAATAATAAAGGATTTTATCTTTATCTATGGCTACCGCCTTCAAC
ATGAATTTACTGTCTAAAGCCCCGCGCGGATTCATTCAACGGGATACAAAAGCCTTCT
GCCTCTTTAATCGGCAAACCTTGGCCACTTGGTAGATGTTTGTTTAAACCTCCCATTTCTGC
AGATAAACTTTTCATAAAATGTGCATTTTCTAACAAGGCTGCCCGCACTGCATTTATC
TTTGCTTTCTCAACATAATTGCGATAGCTCGGATAAACAATTAAAGCAAGTACAGACAAT
ATCAAGACCACTGATATTAATTCAACCAGCGTAAACCCCGATTATCAGTCATTACTTTA
CTTCCAATAAAGAACAGATTATTCACATATTTCTTTGAACAGACTTACTATCCCATTTCAA
CAGTATGCATATTTCCCATCTATTTTTTAGCGGCGGATAGCCGTTTGGCTGGGCTT
TTTGGTGGCGGCGCGCCGACCGAAGCCTGGTCTTCAGCTTCGCCAGCACCGCAGGGCCG
ATGCCCTTACCTTGGTCAAATCGTCTACAGACTGAACGCACCGTTTTCGCGACGGTAT
TCCGCAATGGCTTGCCTTTCGCCGGGCTATGCCCGGCGAGCGCTCAACTCTGTCTG
GAAGCCGCTTGTATTTTACGCGCGCAAGGGAGAAGGCGCAGGAGAACAGCATACAGAAC
AGCAGCAACATTTCTTCTATGGTTTTTCTTTAAGGGTTGCAACAAATAAACCGCATCTT
GCGACGATAAAACGAGTCATTCTAAAATGAATATCCCAAAGTTTCAAGCCGTTCTCCCGC
AAACCCGACCGACACCGTACCGATGCGCTCCCGCATCACCGACATTTTTCGGGCA
AGCAACATTTTTTCCGGGCAAGCAAAAACCCCGAATAATCGGGGGTTTTCTGAATGG
GTGTTTGGCAGTGACCTACTTTTCGATGGAAGAACCACACTATCATCGGCGCTGAGTCGT
TTCACGGTCTGTTTCGGGATGGGAAGGCGTGGGACCAACTCGCTATGGCCGCCAACTTA
AACTGTTACAAATCGGTAAAGCCTTAATCAATATATTCGGTAATGACTGAATCAGTCAGT
AAGCTTTTATCTCTTGAAGTTCTTCAAATGATAGAGTCAAGCCTCACGAGCAATTAGTAT
GGGTTAGCTTACCGGTTACCGCGCTTCCACACCCACCTATCAACGTCCTGGTCTCGAA

Appendix A

-475-

CGACTCTTTAGTGC GGTTAAACCGCAAGGGAAGTCTCATCTTCAGGCGAGTTTCGCGCTT
AGATGCTTTCAGCGCTTATCTCTTCCGAACCTTAGCTACCCGGCTATGCAACTGGCGTTAC
AACCGGTACACAGAGGTTCCGTCCTCCGCTCCTCTCGTACTAGGAGCAGCCCCGTCA
AACTTCCAACGCCCTCAGCATAGGACCAAACTGTCTCAGCAGCTTTTAAACCCAGCT
CACGTACCCTTTAAATGGCGAACAGCCATACCCTTGGGACCGACTACAGCCCCAGGATG
TGATGAGCCGACATCGAGGTGCCAACTCCGCGTCGATATGAACCTTTGGGCGGAATCA
GCCTGTTATCCCCGGAGTACCTTTATCCGTTGAGCGATGGCCCTTCCATACAGAACCAC
CGGATCACTATGTCTGCTTTCGCACCTGCTCGACTTGTGGTCTCGCAGTTAAGCTACC
TTTTGCCATTGCACTATCAGTCCGATTTCCGACCGGACCTAGGTAACCTTCGAACCTCTC
CGTTACGCTTTGGGAGGAGACCGCCCCAGTCAAACCTGCTTACCATGCACGGTCCCCGACC
CGGATGACGGGTCTGGGTTAGAACCTCAAGACACCGAGGTGGTATTCAAGGACGGCTC
CACAGAGACTGGCGTCTCTGCTTCTAAGCCTCCACCTATCTACACAAGTGACTTCAAA
GTCCAATGCAAAAGCTACAGTAAAGGTTACGCGGTCTTTCCGTCTAGCAGCGGGTAGATT
GCATCTTCAACAACGCTTCAACTTCGCTGAGTCTCAGGAGGAGACAGTGTGGCCATCGTT
ACGCCATTCTGTCGGGTTCGGAACCTACCCGACAAGGAATTTCTGCTACCTTAGGACCGTTA
TAGTTACGGCCGCGCTTTACTGGGGCTTCGATCCGATGCTCTCACATCTTCAATTAACCT
TCCAGCACCGGGCAGGCTCACACCTATACGTCCACTTTCGTGTTAGCAGAGTGTCTGTG
TTTTTAATAAACAGTCGAGCCACCTATTCTCTGCGACCTCCGGGGCTTACGGAGCAAG
TCCTTAACCTTAGAGGGCATACTTCTCCGAAGTACGGTATCAATTTGCCGAGTTCCCT
TCTCCTGAGTTCTCTCAAGCGCTTAGAATTTCTCATCTGCCCACCTGTGTGGTTTGGC
GTACGGTTCGATTCAAACCTGAAGCTTAGTGGCTTTTCTGGAAGCGTGGTATCGGTTGCT
TCGTGTCGGTAGACACTCGTCGCTACTTCTCGGTGTTAAGAAGACCGGATTTGCCATAAG
TCTTCCACCTACCGGCTTAAACAAGCTATTCACAGCTTGCCAACCTAACCTTCTCCGT
CCCCACATCGCATTGAATCAAGTACAGGAATATTAACCTGTTTCCATCGACTACGCAT
TTCTGCCCTCGCCTTAGGGCCGACTCACCTACGCCGATGAACGTTGCGCAGGAAACCTT
GGGCTTTTCGGCGAGCGGGCTTTTACCCGCTTTATCGCTACTCATGTCAACATTTCGCACT
TCTGATACCTCCAGCACACTTTACAATGCACCTTCATCAGCCTACAGAACGCTCCCCCTAC
CATGCCGTTAAACCGCATCCGACGCTTCGGTTATAGATTGAGCCCCGTTACATCTTCC
GCGCAGGACGACTCGACAGTGAGCTATTACGCTTCTTTAAATGATGGCTGCTTCTAAG
CCAACATCTCGGTGTCTGGGCTTCCCACTTCGTTTACCACTTAATCTATCATTTGGGA
CCTTAGCTGGCGCTCTGGGTGTTTCCCTCTTGACAACGGACGTTAGCACCCGCTGTCTG
TCTCCCGAGGAACCACTTGATGGTATTCTTAGTTTGCCATGGGTGGTAAGTTGCAATAA
CCCCCTAGCCATAACAGTGCTTTTACCCCATCAGTGTCTTGCTCGAGGCATACCTAAAT
AGTTTTCCGGGAGAACAGCTATCTCCGAGTTTGTAGCTTTTACCCCTATCCACAGC
TCATCCCCGCAATTTTGCAACATCGGTGGGTTCGGTCTCCAGTACCTGTTACGGCACCTT
CAACCTGGCCATGGATAGATCACTCGGTTTCGGGTCTACACCCAGCAACTCATCGCCCTA
TTAAGACTCGGTTTCCCTACGCTCCCTTATTCGGTTAAGCTCGCTACTGAATGTAAGTC
GTTGACCCATTATACAAAAGTACGCAAGTACACCACTAGGGCGCTCCCACTGTTTGTAT
GCATCAGGTTTCAGGTTCTGTTTCACTCCCTCCCGGGTCTTTTTCGCTTTCCCTCAC
GGTACTGGTTCACTATCGGTGATGATGAGTATTAGCCTTGGAGGATGGTCCCCCATA
TTCAGACAGGATTTACGTGCCCCGCTTACTTTTCGTACGCTTAGTACCGCTGTTGAGA
TTTCGAATACGGGACTGTACCCACTATGGTCAAGCTTCCAGCTTGTCTCTATCTCG
ACAGTTATTACGTACAGGCTCCTCCGCGTTCGCTCGCCACTACTTGGCGAATCTCGGTTG
ATTTCTTTCTCCGGGTACTTAGATGGTTCAAGTCTCCGGGTTCGCTTCTCTAAGTCTA
TGATTCAACTTAGGATTCGACAGATGCAGAAATGCAGTGGGTTTCCCATTCGGACATCGCGG
ATCATTGCTTTATTGCCAGCTCCCCCGCTTTTCGCAGGCTTACACGTCCTTCGTGCGC
TATCATCGCCAAGGCATCCACCTGATGCACTTATCACTTGACTCTATCATTTCAAGAAC
TCTTTGACTTTGCTTTCGCTTCCGTTGACTAGAACATCAGACTTGAATTTCTACTTTG
ATAAAGCTTACTGCTTTGTTGTCTTAACTCCTGCCTTTTGTGTTTCAGGATTAAGTCGA
TACAATCATCACCAAACTACTGTGTTGTTTCTTTCTCTTGGCAGAGATTTTATCCT
TTGCAAGAATAAAAAATCAAACAAACGCTTTGTCTTTGTTGTTGATTTCGGCTTTC
AATTTGTTAAAGATCGATGCTGCTGATATTGCTATCTACTGTGCAATCAAACGAGCTG
ATTATTATATCAGCATTTTGTCTTGGTCAAGTGTGACGTGCGCTGAATGGATTCTGTT
CCATTCTTCCGTTTGTATTGTACAGTATTGGTGGAGGCAACGGGATCGAACCGATGAC
CCCCGTGTTGCAAGCAGGTGCTTACCACTGAGCTATGCCCGCTTCTTGGTGGGTCT
GGGAGGACTTGAACCTCCGACCCACGCTTATCAAGCGTGTGCTCTAACAGCTGAGCTA
CAAACCCGGATTCTCTTCTAAGCGAATCTTGCTTCACTCAAGCTTCTTCCGCATCTTT
TTCAGTTTACCGATAAGTGTGAATGCCTAAAGCTCTTCTTTCTCTAGAAGGAGGTGAT
CCAGCCGAGGTTCCCTACGGCTACCTTGTACGACTTACCCAGTCATGAAGCATAC
CGTGGTAAGCGGACTCCTGTGGTTATCTACCTACTTCTGGTATCCCCACTCCCATGG
TGTGACGGGCGGTGTGTACAAGACCCGGGAACGTATTACCGCAGTATGCTGACCTGCGA
TTACTAGCGATTCCGACTTCAATGCACTCGAGTTGCAGAGTGAATCCGGACTACGATCGG
TTTTGTGAGATTGGCTCCGCTCGCGGCTTGGCTACCTCTGTACCGACCATGTATGAC
GTGTGAAGCCCTGGTCAAGGGCCATGAGGACTTGACGTCATCCCCACCTTCTCCGGC
TTGTACCGGCACTCTTATAGAGTGGCAACTGAATGATGGCAACTAATGACAAGGTT
GCGCTCGTTGCGGGACTTAAACCAACATCTACGACACGAGCTGACGACAGCCATGCAGC
ACCTGTGTTACGGCTCCCGAAGGCACTCTCCGTCTCCGGAGGATTCCGTACATGTCAAG
ACCAAGTAAGGTTCTTCGCTTGCATCGAATTAATCCACATCATCCACCGCTTGTGCGGG
TCCCGCTCAATTTAGCTTTTAACTTTCGACCGCTACTCCCGAGGCGGTCAATTTCA
CGCGTTAGCTACGCTACCAAGCAATCAGGTTGCCAACAGCTAATTGACATCGTTTAGGG
CGTGGACTACAGGGTATCTAATCCTGTTTGGCTACCCACGCTTTCCGGCATGAACGTCAG
TGTTGTTCCAGGAGGCTGCTTCGCCATCGGTATTCCTCCACATCTCTACGCATTTCACT
GCTACAGGTGAATTTACCTCCCTCTGACACACTCGAGTCACCCAGTTTCAAGACGAGT
TCCCGGGTTGAGCCCGGGGATTTACATCTCTGCTAAGTAACCGCTCTGCGCCCGCTTAC
GCCAGTAATTCGATTAAACGCTCGACCTACGTATTACCGCGGCTGCTGGCAGTAGT

Appendix A

-476-

TAGCCGGTGCTTATTCTTCAGGTACCGTCATCAGCCGCTGATATTAGCAACAGCCTTTTC
TTCCTGACAAAAGTCCTTTACAACCCGAAGGCCTTCTTCAGACACGCGGCATGGCTGGA
TCAGGCTTGCGCCCATTTGTCCAAAATTCCCCACTGCTGCCCTCCCGTAGGAGTCTGGGCCG
TGTCTCAGTCCCAGTGTGGCGGATCATCTCTCAGACCCGCTACTGATCGTCGCCTTGGT
AGGCCTTTACCCCACTAGCTAATCAGATATCGGCCGCTCGAATAGCGCAAGGCCCG
AAGGTCCCTGCTTCTCTCTCAAGACGTATGCGGTATTAGCTGATCTTTTCGATCAGTTA
TCCCCACTACTCGGTACGTTCCGATATGTTACTACCCGTTCCGCACTCGCCACCCGAG
AAGCAAGCTTCTGTGTGTCGCTGCCGACTTGCATGTGTAAAGCATGCCGCCAGCGTTCA
ATCTGAGCCAGGATCAAACCTCTTATGTTCAATCTCTAATCTTTTAACTTCTGGTCTGCTT
CAAAGAAACCAACAGGACAATGTTCAAAACATTATCTTGTCTGTCTTTCAAACAGTGTGA
GACTCAAGGCACACTCACACTTATCGGTAATCTGTTTTGTTAAAGAGCTTGCGAATTATAA
AGTATTCCTTCCGCTGTCAAGATATCTCTCGATATCCCCAACATTCTGTGTATACCTTT
TCAGTTCGTCCGCCACTTCTGCAGCAGCGAAGAACCGAATATACGCCACAGGGAAAAA
CGGTCAAATGCTTTTCTGAAGAAATTTTTTAAAAATATTATCTATTGTTTATAAATTT
AATTTATATCAGTCAATTTTATTTTCCATACAGAATTCTTCCAGTGCCCGATGGATATTT
TCAGTCTGCCATTGTTTTTAAAGGTTGCAACAATTTGATTTGTGGTTTTGGTAGTCA
AATTGTATTTTCCATGCATACAGAAACATGGTTTTCGGATTCTGTTCCGCCGTATAAGCTG
TCGCCAGAAATCCGACTGCCCAAACCTTTTCATCGCCACTCTCAATTGGTGGCTTTTGCC
GTATGCGGTTCTAGGATGAACAGCCGAGTTTTTTCGGCGTACTGATGCTGTGGAATCGG
GTAACGGCGATATTTCTGTATTGCGCGTCAACTTCCACATTCCACATCTGGATTTTTCC
ATTCGCGCTTTTAAATCCAAACCCTGCTTTTTTGGACGGCTTGCGGTTCGACAGTGCCAAATAG
GTTTTTTTGATGCTTTTCCGGCAAACCTGTCCGCTAAGGGCGGACGCGCTTTCTTTGTTG
AGGGCAAACAGTAAAATGCCGCTGGTCTGTTGTCCAATCGGTGCAGCAGCCACACACGC
TCTACGCCCACTGTATGGCGAGTGTTCGGGCCAGTCCGGTCTCGCCGCTGTCTTGGTGG
ACGGATATGCCGCCCGGTTTTGTTGATGGCGACGAAGTCTTGATGGCGGAACAAAATTTCC
AACATATCCATATATGCCCTTGCAAAAATAGAAGGGTTCAATTTTCGTGTTGATGTTCCGGC
AAGGATTTTTTCGTACACAGCTTGGCGCACGTAGCGGTGGATCGTTTCCGTCCAGCCTTC
CGGCCCGACCACTCTTTTACCATTAGTGGACGACACTTCGGCGATTTCGCGCGGCGCAT
GAGGAATACGGTGGATATTTTCCGGGGCGAGGTGCTGTTGATATGGCGCATGGAACGTTT
GTATTCGTAATCCGAAGCAGAAGCGGATGCCGCGCACGATGAATCCTGCATCTACCTCAG
GGCGTAATGCACAGAAATCGGTTTTCAAATACATCGGTTCTGACGTTGGGAAACATTT
AGTAATATCGCACAAACATATCCTGCCCTTTCAGCGACGGTATAGGTGCTGCGTTTTGTCGGG
GTTAATGCCGATGGCGACGATGAGTTCGTCAAACATAGATTGCGCCTGCCGTATCATCCA
CAGATGCCCCAATGTGGCGGATCGAAACTGCCGGCATAAACGGCGCGGCGCGGTGTATT
CGGTAACATTTGATTCTCTCCCGGCTTCATAGTCCGCTGTGTGTTGGTGGCTGTGCATCCG
TATTGTATGCCCAAAGTAAATGCCGTCTGAAGCATTTTCAGACGGCATAGTCCGACGGC
GTTTTTACCGGCATCAATCTCGCCGTTTTAAAGACAACAGGATGTTGACGAGCTGCTGAA
GATGTTGTAAAGCGAGATAAACAGTGTGTCAGTGCCGCGCTGATGTGGCTGTCTTCGCCGCC
GTCGATGACGGTGGTACCTGCCACATAATCATTAAAGAACTGAACAAGACAAAACCGGC
GGAAATGGTCAGGGCGAGTGGCGGAATACCCAAAACAGATTGGCAACACGGCGACCAT
CAGAATGACCGCACCTACGGTCAGGAAGCGTCCGAGCGCTTCATATCGAGCCGGTTTCG
GCGCGCAAGGGCGGACATCGTTAAAAAGACGGCGCGGTCATCGCGCGGCAATGCCGAC
GATTTTCGCACCGTCGGCAATATGGAGCGGTATTGACGACGCGGGCGGATCAATACGCC
CATACCGAATGTGAATACCATCAGCAGGGTAACGCCGATTGCTGTAACGGTTTTTCTC
GATGAAGTGGATCATACCGTAGAAAAACGCCAACACGACGGCAAAACCTATCCAGCGCGA
ACCGAAGGGCGGCTAAAAATTGAAACCGGCATTGGCGGCAAGTGCCGCGCTGCCGAAGC
CGGAATAAATGAAATCCGAGCAGGCGGTAGGTTTTCTGACGAGCGGTGTTTTAGAAAC
CGTATGCGCGGTGTAGTCGTAACGTCGTGTGCATATCATCTGCTCTGAAAGCGCGGT
TGGGAATAATGGGGGATTTTAACATTGCCCAATGTCAAAATTTGTCGGTTGCGTGAAGA
TAAAGTTGTCCGGCGTATTTTAAAGGCCGTCTGAAGCAGTTTCGGACAGCCTGTGTTCAA
AACGGAACACGTTATTGCGGAACGTATCCCTGAACGGCATCCGCGCGCTGCCGAAGAA
ATACTGCTCCATCTGCTGAGCCAGGTATTTCGCGCGCGCGGATCGCGAGGCTTAAACG
GTTTTCGTTAATCAGCATCGTTTGGTGGCGCGTCCACGCCGCCACGCTTCTTGCATAC
GTTTTCAAAAATGCGCTTGCCTTTCGTTGGGAAGCGCGGAAATTTTCATGCCTTCGGC
TCTTTTGTGAGTTGACGAGAAATACCATGCGTGCCATAGCGGATTCTTTGCTGTGTT
CAGAAATAACGGGGTATTTTAACCGATTAGGGATACGGACAAAAGCCTTCTTATCCCG
ATGATAGGGATGTTGTGACGATGGAACCGCGCGGTAGAGCTGCTCGGTGAGAAAGAC
GCGCACCATGCCGTGCGGCAGGGTCAGGCTGGACAGGCGCATCATCATGCTGCTGCTG
TTTGAAGCGGTGCTCATGCCGTCGCGCGCGCGGATGACGAAGCAGAGCTGTTCGCCGTT
TTGCCGCGAGCTTTTGAAGTGTTCGCCGAGCTCGACGGAGGTGCGTGTGTTGCCGCGTTC
GTCAAGAACGACGAGGAACCGCCTTGGGAATGGCTTCAAGGATGCGTTTTTCTTCCGC
CGCCATACCTTGGCGCGCATTCACGCCGCGCGCGTTTTTTCGGGTTGATTCTCTTGA
TGCGTAGGCGACGTCGCGTCCGAAGCGTTTTGGCGTATTTCGGCGACGGCTCATCAACCCA
GCGCGGATTTTTGGTGCCGACTGCCAAAACGGTGATGTTCAATGCTTCTCCCTTACAGG
AAAATGCCGCTCTGAAGTTTCAGACGGCATCGGAATCAGTCTGCCGCTGCCACGGCTTC
TGATTCGGCGGTGGGAACTCGGTTTTCTCGCCGCCAGAGGGTGTGATGCTGATAGAG
TCGCGCACGGCAGGAGCATGACGTGGACGACGAGGTCTCTGCATCAACCAGCGTCCAT
TCGCGCGTGTGCGCTTCGGTACTGAGGATTTCAAACCGGCTTCTTTCAAATCGACGGCA
ACGTTGTTGGCGCGGCTTTGACTTGGCGGCTACTGTGCGCGCTGGCGATAATCATTCTG
GCAAACAGCGAAGTTTTGTCTTGGGTTTCGAGAACGGAATGTCTTTGGCTTTGATGTCT
CCGAGGGCGTTGACGGCGACCCCGACCATTTTTTGCAGGTCTTGACGTTTGTGTTCTG
ATTATTTTCTTAACGGGATGTTTTTTCAGACGGCATATAGCCGTTTTCTTACTGATTTGACT
TTATTTTTTCATACAAACCGTGTTCGCGGATGTAGCGTGCGCGGCGAGGCGGGATGCCGTC
TGAAACGCCCTTGCCCGGCAAGGTTGCGGCGGATTTCGGTTGACGACACATTATGCATCGG
GGCGGACAAGATGCGGACGCTGCCGTCTGAAGGACTTGCCAGCCACGCGTGACGTTT

Appendix A

-477-

GCGCGGGGTTTGGTGCAGGCTGTGCGCCCTGCCTCATGGCGACGGCGATATTGGTTTCGCG
CACGAGCATCTGCCATTTTTCATGTGTGCAGCTTCATCAGGCTGTCGCTGCCCATCAG
CCACCAGAGTTGCGCGGATGGGAAGTGTGGCGGAAGATTGGACGGTATCAAAAGTATA
GGTTGCACCTTCTCGGACGATGTGCAATCGCTGACGGCAAAACGCGCTCTTCTGCGCT
CGCCAATTTCAGCATGGCAAGCGGTGCGCGGCGGAAGCGGAGGCTGCGTCTTTGTGATA
CGGGCCGCTGTGCGCAGGAAACAACCGCTCCAGCCGATTTCGTGCGGCAAGGACG
GGCGATATGAAGATGTCCGTTGTGTATCGGGTCGAAAGTACCGCCGAACAATCCGATTTT
CTTCATGATGTTTCCATTCTTCCGATAAGTCCATGCCGTCTGAAACACTGCCGTCCACA
ACCAGCGTCAGTTTGCCGGTAACGGGATGGATGACCAGTCCGTGAACGGCGATATGGCGC
GGCATCAGCGGATGGTTACGGATAAGGTCACCGTGTGGCGCACGCTGTCTTCGACGTTG
TCGAAACCGGTTCAGCGAGCGTTCGAGGTCGATACCGGCATAACGAGGGTTTCGATACGG
TCTTCGGGAATCCGGCTTTCCCGGACGCGCCGAGGAATTCTTCGGCATTCAGCCCTGC
ATACCGCAATCGTGATGGCGATGACCATAATCTCTGACCTTCAGTTCAAACACGGCA
ACCAAAGGCTCCCGATTCACCAACCCACGGGTGCGTAACACAGCGCGCCGCAATTTTA
ATCAGCTTGGCATCGCCGTTTTCAAACCCAACCGCTCGGGCAGCAGCCCGATAATCCGC
GCATCCATACAGGACAAACTGCCAGCCCGCTTCGGGGTATTTGTCGGTAAAGTATTTT
TCATATTCGCGGACTCGACAAACTGCCGTTATGGGAAGGATGTTATCCAACCTCGCTC
ATTTTGGCGTCTCTGTAAGAAAGGTTTCAATTATAACGTTTCCGTCTGTTTTCGCGCTTC
GCCGCCCTCCAAACAGCAGGAAATACCCAGCGCAACGCCCAACAGCAATGTCAGCAC
CATCGCCCGCGCGTAATTATCTCACC CGCGCTCCCAAATAGGCATAAATCAAAGTCGT
CAGCGTCTGCCATTCGCGGACGCGACAGAAACAATGTCGCCGCAAAATCGCCACGCAAGT
TGCCGCCGCAAGTCAAGACCGCGCGCAACCGCGGTTTCAAGAGGGGGAACGTGATGCG
GCATGCCGTCTGAAAGCGCTTTCACCCAAACCGCGCGCCGCTGCCGTAAATCCGGCGG
CAGTGATCCAGGCTGATAAAACATCTTTGCCACAAACGGATACGCCAGCAGCGCATA
CATCGCCAGCAGCAACGGCAACGAGCGCTCCACTGCGGATAAAGCAGCAGCAGCCCGC
CGAAACACAAACCGGCGACACCATAAACGGCAAAACATCAGCCCGCGCATCCACGCCGA
CCGCCGCGCGCGCGCATACACACACCCAAACCGCGCGCGCATACACCGCGCGCGC
CGAGAAGCGCAAGTATTCACACCGCGCTGCCACGTTTCACTTTCCATTAACACACGCCA
CGATTGCGCGCGCGACACGCTTTCACAACAATTGCCAACAAAGGAACAGGCAGCACAC
AGACAACACCGCGCGCGCAACCGCAGCAGCAGCATATTCGCCGACCGACTGCGCGCGCGA
CGGCATCAGAGGGAACCGCGCTTATCCGAAACCGCGCGCTGCCGAACACGCATACAG
CAACCTGCGCGCGCGCTTACCCCAACACAGCCACACAGCAGCCGAAGCAACCGCCAT
ATCGAGTTCGAACATGACCAACTGGTAAATTTCCACTTCGACCGTGGCATAACGGGTGCC
GCCAGCAGCAGCGCCAGCCGAAACCGGAAACAAATACAGAAAGACAAGGCACACGCC
GCCGCAAGCTCCGCGCGCAAAACGGGCAATTTCAATGTCCCAAAACCGCGCGCACGCC
CGCGCCCAACGTCGTCGCTCTGAAGCCGTGCCGCGAGGCACTTGACAAACCCCTGATA
CGCCGCCCTGACCAACACAGGAAGGTTGAAAACACATTGCCGTACAACAACAGATACGG
CGTATCTGCTCCCGCGCCACAAACAGCCGTCGCCCGCGAACAGGCGCAGCAGCCAC
GCCCGCCACCAACGTGGGCATCACAAAGGCAGCATCAGCAGGCGCAGCACCAGCCG
CCCCGGAACCGCCAGCCGCGCAGCACCACGCGCAGGCAAGCCAAAGGCAGCACCAG
CACACAGGTTGCCGTGCTGAAATACCGTCCACGCCAAACGTTTGAGCATATAGGCATC
CGACAGCAGCCGCGCGCCAAACCGTCATACGCCGCCACCGCCCAAAAGGCAGCAAC
GACCATTACCGCCAAAAAGCCGAAGGCAGCAGGGCAAAAGCAGCCCATACACCCAAACG
CCGTCCATCCATCGCTTCCCCACTTGAACACTGATGTTGCGATTGTACCCAAAAGCCC
CCATACCGGTATATTTCAATCCGACTACATACCGTATCCGCTTCTCCCGCGCTGTA
AATATAGTGATTAAACAAAATCAGGACAAGGCGACGAAGTGCAGACGTACAAATAGT
ACGGAACCGGATTCATCGGTGCTTCAGCACCTTAGAGAATCGTTCTTTGAGCTAAGGC
GAGGCAACGCGCTACTGTTTTTGTATTAATCCACTATAAATCGTTCAAATAAACAGGAATA
TAACTTCAGACAAACACTTACCGCCCGATTGTGCTATCGTTTTCGCACAACCTAAAAA
AACCTGACAATTTGTACTTTTATTACAGAGAAAGCTTTACAAATGGACGGCTGGACAC
AGACGCTGTCCGCGCAACCCCTGTTGGGCATTTCCGGCGCGGAATCATCTCATTCTGA
TTTTAATCGTCAAATTCGCGATCCACGCGCTGCTGACACTGGTCATCGTCAGCCTGCTGA
CGGCTTTGGCAACCGGTTTGGCCACAGGCAGCATTTGTAACGACATACTGGTCAAAAAC
TCGGCGGCACGCTCGGCGCGCTGGCGCTTCTGGTGGCCTGGGCGCGATGCTCGGACGTT
TGGTCGAAACATCCGCGCGCGCACAGTCGCTGGCGGACGCGCTGATCCGGATGTTTCGGCG
AAAAACGCGCACCGTTCCGCGTGGGCGTTGCCTCGCTGATTTTCGGCTTCCCGATTTCT
TCGATGCCGGAATATCGTCATGCTGCCATCGTGTTCGCCACCGCACGGCGCATGAAAC
AGGACGTACTGCCCTTCGCGCTTGCTCCATCGGCGCATTTTCGTCATGCACGCTCTCC
TGCCGCCCATCCGGGCCGATTCGCGCTTCCGAATTTTACGGCGCGGAACATCGGCCAAG
TTTTGATTTTGGGCTGCGCGACCGCTTCATCACATGGTATTTACGCGGTATATGCTCG
GCAAAGTGTGGGGCGCACCATCCATGTTCCCGTTCCCGAACTGCTCAGCGCGCGCACGC
AAGACAACGACCTGCCGAAGAACTGCCAAAGCAGGAACGCTCGTCGCCATCATGCTGA
TTCCCATGCTGCTGATTTTCTGAATACCGGCGTATCGGCCCTCATCAGCGAAAACTCG
TAAGTGGCGGAGAAACCTGGGTTTCAAGCGCAAAATAATCGGTTTCGACACCGATCGCCC
TTCTGATTTCCGTAATGCTGCGCACTGTTTGTCTTGGGACGCAACCGCGCGGAAGCGGCA
GCGGCTTGGAAAAAACCGTGACGCGCGCACTCGCCCCGCTGTTCCGTGATTCTGATTA
CCGGCGCGGGCGGTATGTTGGCGCGGCTTTCGCGCTTCCGGCATCGGCAAGGCACTCG
CCGACAGCATGGCGGATTTGGGCATTCCTGCTCTTTGGGCTGTTTCTTGTGCGCTTGG
CACTGCTATCGCGCAAGGTTTCGCAACCGTTCGCCCTGACCAACCGCGCGCGCTGATGG
CTCTGCGGTTGCGCGCGCGGCTTTACCGACTGCGAGCTCGCTGTATCGTATTGGCAA
CGGCGCGAGGTTTCGCTCGTTGACGCACTTCAACGACTCCGGCTTCTGGTGGTTCGGCC
GTCTCTTGGACATGGACATACCGACCGCTGAAACCTGGACGGTCAACCAAAACCTCA
TCGCACTCATCGGCTTTGCCTTGTCCGCACTGCTGTTCCGATCGTCTGACAGACGGAAA
GGATAGTAAATGACTACGATTTTGTGCTATGGCGATGCGGCTGCGGCAAGACCAAC
GCCGCGCTGTCCCTGCAGAAACACCTCGGTCAATGTCCTATGCCGAAGGCGACGAGTTC

Appendix A

-478-

CACACCCAAGCCAACCGCGACAAGATGGGCGCGGGTATTCCGCTGACCGATGAAGACCGC
TATCCGTTGGTGGGCAATCTGCGCGACTGGATGACGCAACAGGCGCAAAACGGTGCGAAC
CACACCATCGTAACCTGTTCCGCCCTCAAACGCGGCTACCGCGACATTCTGCGCGGAGCC
GAAGGCAAGCTGCCCTTCATCCACCTCAGTCCGCGCGCAAGACATCAACCTCGAGCGCATG
ATGTCGCGCAAGGACATTACATGAAAGCAGGGATGCTCGATTGCGCACTGGAATCCTC
GAGGAACCTGGGCGAAGGCGAATACGGGGTCAAAATCGCCAAACCCCGGCACGCCGGAAGCG
TCTGAAGCCGACACAGGATGGGTTTCAGACGGCATAAACATCGGGAACAGAATGGATTA
CATTGATTATAGTGGATTAACAAAAACAGTACAGCGTTGCCCTCGCCTTAGCTCAAAGA
GAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATCTGTACTGTC
TGCGGGCTTCGTCGCCCTTGCTGATTTTTGTTAATCCACTATAAAATGGAAAATACCCGG
CTATCGTCTCATTTTCGTTTTAATCAGCCATAAAAAATGCCGTCTGAACCCCTTTCAGACG
GCATTTCTGTCAAACGCGGACGCACTCAACCCAACTCAACAGCAGGTTGCGGAACGCG
TTCGGGTCTTTGATAAACGTCATCTCGCCCGCTCGGGAATGAAAATCCAACAGGCGC
GACACCCAAAAACGGATGCAGCCGGCACGTTGGGCGGTGCGGAAATACGCCCTTTCTTCG
GCACTCAAGGGGCGCACGCCCTCATAACGCCGATAAACGCCCTTTTCAACGCCCTCATCC
AACTTATGTCCGCCGTCTTGCCCAATCGTTGACCGCAATCGCCAAGTCATACATAAAA
TTGCCCCGCGAGCGGTATAGAAATCGATGAAGCCGATACCTGACCGCGTCAAGCAAC
ACATTGTCTTTAAACAGATCGGCATGGATGATGCCCGAAGGAGATGATTGCCGAGATTG
TCCTTCAACGCATCGATTTCGGAACACAGCAGTGGCGCATCGTCTTGCAGACAGGACGGG
AGCAGCGGGCGCACGCTCCGTCACCGCATTTGAACGCGGGTTTCCATTTCCAA
GGGAATCGGCGCGCGCAAGGTGCATTTTCGCCAACATCGCACCGGTATGAAAACACTGC
TCAGCCCTCGGCGAGCGGTATCCGAACCTTTCAGGACAGGCAACAGGCGAGGAGGCTTA
CCCGCCAAAACGAATCAAGCCGGCGTCTTTGCGGCAACCGGCGCGGCAACCGCCACG
CCCTTCATCTCAATGCGGTTAAGCTCCAGAAAACCGCAGCTCTTCTGTTTCAAC
ACTTCAAACACGGTCAGACATAACGTCCCGAAGTCGTCTGTCAGAAAATAATTGCTGTTG
GTAATCCCTGCGCATGCCCTGCAGGGAACAAATTCGCCAAATCGTAACCGCTCAGG
AAGCCGCGCATTTTCATCATCGGAACACTGGTATAGACAGACATCAACTCACTTGCTC
AAAAACGGGCAACCCGCCGTGAGAACGCCGGACGGCAGGCAACATATAATTACATCG
GTCGAATCGCACAGGGCATTAAGTTTGCAGAACACATGTAAGTCATACCTTTCGTATCC
GCCACATCCAAGCCTGCCTGACGGCACATTGCGCGCAGTCGGCAGGTGCGATGAATTT
TTCCAGTCGTGCGTGCCCTTTGGGGACAACTTCAACAGATATTCCGCCCCACAATCAGA
TGCAGGTACGATTTCGGGTTTTTATTGATGGTGGAAAAAACACCATGCCGTCCGGTTG
ACCAGATTGGCACAAGCACGCAGATGGCGGCGGGATCGGGGACGTGTTCCATCATTTCC
ATGCACGTTACCACTACGCAACGAGTGCAGTTCCGCCCTCGGCAAGGTCTTCCACGCGGATA
CATTCGTATTGATATCGGCGACATTGTTCAAAGCCGCTGACGGCGGGCGGTTTCCAAC
GACTGCTCCGCCATGTCTGATGCCCTTTACAAACGCCGCGCGCGCGCCGATACCTTCC
GCCAAGATGCGCGCGCGCGCAGCTCCAAACCCGTTTTCGCGCACAAATCCGCGTGT
CCGTGATATAATCCAGCCGACGGGATTGATGTCGTGCAAGGTTTTGAACTCGCCCGAC
TTGTCCCAACATTGTGTCGCAATCCGGCTGAATTTGGCGATTTCGCCCTCATCGACATTA
TATTTTTTGTGCGACATTTCCCTCCCATCTGACGAACCGCCACTCCAAAACCAAGAT
TATACTATGGAACCAATGCGGCTGTAAGCCTTTTCGGGCGGCGCGGCAAAATACCTT
ACAAATCCTTACACTTTACGGCATAAATGGCGGCTCGCTTTTCTGCGAGAAAGACAAAAT
ATGCCCAACAAAACCCCTTCACTGTTCCGGCGGCGGATGATTATCGCCGGCACGGTCATC
GGCGCAGGCATGCTCGCCACCCGACCGCCACATCCGGCGTATGGTTTACCGGCTCGCTG
GCCGTGTTGCTGTACACCTGGTTTTCTATGCTTTCCAGCGGCTGATGATTTTGAAGTC
AACACCCATTATCCGCACGGCGCAAGTTTCGACACGATGGTCAAAGACCTGCTCGGACGC
GGCTGGAACATCATCAACGGCATCGCCGTCGCTTCGTTTTATACCTGCTTACTTACGCT
TATATCTTCGTCGGCGGCGGCTGATTGCCGATGCCAAGCCGTCGCTCCTTCGATACCCAA
GCCCCCGCGGCGCAAACTACTGGATTTACGCCGCCACCGCCCTGCCGCTCTGCTCGCT
TCCTTCGGCTTCCACGGCAACGTCTCCAGCTGCTCAAATACTTTAAAGGCGACGCGCCC
AAAGTGGCTAAATCCTGACGGGCACTGATTGCGCTGGTAATTTACGTCCTCTGG
CAAACCGCCATCCAAGGAACCTGCCGCGCAACGAGTTGCGCCCCGTCATCGCCGCGGAA
GGGCAAGTCTCCGCTCATCGAAACCTGTCAAATTCGCCCAACCGGCAATATGGAC
AAAATATTGTCCCTGTTTTCTATATGGCGATCGCCACCTCGTTTTAGGCGTAACGCTC
GGACTCTTCGACTACATCGCCGACATCTTCAAATGGAACGACAGCATCTCCGGCCGACCC
AAAACCGCGCGCTGACCTTCTGCGGCCCTGATTTCCTGCTGCTTCTCCACCGGC
TTCGTTACCGCATCGGCTACGTCGGCTGGCGGCAACCGTCTGGACAGGCATCATCCCC
GCCATGCTGCTCTACCGTTTCGCGCAAAAAATTCGGCGCAGGCAAAACCTATAAAGTTTAC
GGCGGCTTGTGGCTGATGGTTTGGGTCTTCTTTTCGGCATCGTCAACATCGCCGACAG
GTATTGAGCCAAATGGAATCGTCCCCGATTTAAAGGATAAAGGCAAAATGCCGTGTA
AGCCCGCGGCGGCTTCAGACGGCATTGCCGCAACAAACGGCAACCGTATTCCGGCACAC
AGCGCATTACCTTCGCCCTCACGCAACAAATCCCGCCCCGCAAAACGGGACGCAACCAT
AAGGAACAATGATGAAGCTCAAAATAGACATTGCAACCAACAACTTCAAACACGGCGGCG
GCACGGAACGCTACACATTGGATTGGTAAAGGCTCTGAACAGACAAAACATCACACCGG
CCGTTTATGCGAGCAAAATTTGATCACAGCATTCCTGAATACGCCCTAATCGAACCCATC
TTGTGATCAACACCGGACGCTGAAAAAACTACGCTCATTCCTCTTTTCAAGCCGGCTCG
CTCAAACGAGAAAAACAGTGCCGCCAACTGATTGCTGCGCACCGCGGATTACGCCG
ACCTCTCATCTGCGCGGCGCACACACTTGGGCTACCTGCACCATATGGCGCAAAACCGA
ACCTGCTCGACCGGCTCGCCATACGCCGCAACCGCAGCAACTACGCCACCGCCAACTGA
TTATGGCGCATTCCTATGATGCGGCGCAACTGGTGGGACTGTACGGCGTTCCCCCTG
AAAGAATCCAAGTCGCCCCCCCCCCCCGAGATACGGAACGCTTCTTTCACAACCCGGA

Appendix A

-479-

GAAACTGCCGACCTGCGCGCCAAATACGGCTTTGCGGACCATGAAACCGTTTCTCTGTTC
CCATCGACCGGCCACACGCGCAAAGGTCTGGAAGTCTTGCCGACTTTTTCGAACATACC
AGCCTGCCCGTCAAGCTGCGCGTTGTGCGGCTCCCGCTTCCCGCCCTATGAAAAACGTC
GTCGGACTGGGCTTCTGCAACCATATGCCGAACCTACCGCGCCCGGACTTTACCATT
ATGGCTTCCCTGTACGAACCCCTTCGGGCTGGTTCGGCGTCGAATCCGTCCTATGCGGCACA
CGCGTCGTCCTTCCGAAAACATGGCATGTACAGAGGTATGAACGAAGAAGCCGGCTTC
TTTTTCTACGCCAAAACCCGGAACCCCTGGCGCAAGCCGTGCCCCAAGCCGTACGCCCT
AAAAAACAGGGCGGACACCGCTGTCCGACCCGATGCGGGCACTGAACATAACCCGGCT
TTAGACAAACACATCGGGCTGATTCTTGAAATGCTTGCCGCTGACCGCGTCCCAACG
GCATTGCCCCGCAACTTCCGCGCCGAGACTTTTGACGCGGAAAAATACGTCCGGCAGAAAA
TCCGCGCTTGAGGAGCAGGCGAGGAAAAACATCGGCAACCGCCCCGAAACGCCGTACCCG
CGCATTGCAAGCGGTTGCGGGAACAGGCGGCTTATCGCGCGGCACAGGCGCATTTCCACC
GATATTTAGTATAATGCCACCCCGACCTGCCCAATCCAAAGGAAACCGCATGAAACT
CATCATTTCTCGACCGCTGACGGGTATCAATCAGGACCGGACGACTTCGTCAAATCCGT
TGACGAGTGGATACCTGCGAAGGCAGCATGGATGCGGTGGCATTTCTGACGCGAGGAGG
CTACACCGTCCGCGTTGCCACCAACCAATCCGGCATCGGGCGCAAATATTTTACCGTTCA
AAACCTTACCGAAATGCACGCCAAAATGCACCGCTCGTCCGTACGGCAGGCGGGGAAAT
CAACGGCATCTGGTTCTGCGCGCACACCGATGCGGACAACTGCAACTGCCGCAAGCCCAA
ACCGGGTATGATTGAAGACATCATCGGACGCTTCAACGCCCAAGCCTCGGAAACCTGGCT
GGTTCGGCGACAGCTGCGCGATTGTCAGGCAATCGATGCCGTGCGCGGCAACCCGCGCT
GGTTCTGACCGGAAAAGCAAAAACGCTCTCCCAACAGGACAGCAATTGCCGGAACA
CACACAGGTTTTGATACCTGCTCGATTCTCACAATACATCATGCAGGAAAAACCCGC
ACCGCAAGCCGACTGAACATACCGCATTCGACAAAGGCAAAACCATGCTCATCATCCGCA
ACCTGATTTACTGGCTGATACTCTGTTCCACCCTGATTTTCTCTTTTCCCTTTATGCTGC
TCGCTTCGCTTTTCCGGGACGGGCGCACAAGATGGCGCGGGTCTGGGTTCGGCATTTCTCA
ACTGGTCGCTCAAACACATCGTGGGCTCAAATACCGCATCATCGGCGCGGAAAACATCC
CCGACCGCCCCGCGCTCATCTGCGCCAAACACCAAAGCGGCTGGGAAACGCTCGCCCTTC
AGGACATTTTTCCGCGCGAGGTTTACGTTGCCAAACGCGAGTTGTTCAAATATCCCTTTT
TCGGCTGGGGCTTGAACTGGTCAAACCATAGGCATAGACCGCAACAACCGCGCGGAAG
CCAACGAGCAGCTCATAAACAGGGGTTGGTGGCGAAAAACGAAGGCTATTGGATTACCA
TTTTCCCCGAAGGCACGCGCTTTCGCGCGGAAAACGCGGCAATACAACTCGCGCGGCG
CGCGCATGGCGGAAAATGTTGAGATGGACATCGTCCCGTCGCGCTCAACAGCGGCGAAT
TTTGGCGGAAAACCTCCTTCTGAAATATCCGGGGGAAATCACCGTCGTCATCTGTCCGA
CCATCCCGCACGCAAGCGGCAGCGAAGCCGAATTGATGGAAAAATGCGAACATCTCATCG
AAACGCAACAAACCGCTTATTTCCGGCGCAGGCGGCTTTGCGGCCAAAATGCCGTCTGAAA
CCGCATGACCGCTTTGTCCACACCCCTTTCAGACGGCATGGAATGACCGTCGAAATCAA
GCGCGCTGCCAAGAAAAACCTGATTATCCGCCCCGCGGCACACATACCGTCCGCATCAG
CGTCCACCTGCTTCTCGCTCTCGCTCTAAACCGCTGGCTGTATGAAAACGAAGCCGT
CCTGCGGCAAAACACTGGCGAAAACACCGCGCGCGCAAACTGCGGAAAACCGGCTGCCCGA
ATCCATCCTCTTCCACGCGAGACAGCTTGCCCTCACCGCCCATCAAGACACGCAAAATCCT
GCTGATGCGCTCTGAAATCCGTGTTCCGGAAGGCGCACCCGAAAACAGCTTGGCTGCT
GCGGGAATTTTTGGAACGGCAGGCGCACAGTTACCTGATTTCCCGCTCGAACGCCACGC
CCGCACACACAACCTGTTCCCGGCTCCTCTCGCTGACCTCTGCCAAAACCTTCTGGGG
CGTGTGCCGAAAACACAGGCATACGCTTCAACTGGCGGCTGGTGGCGCACCGGAATA
CGTTGGCGACTATGTCTGCATACACGAACCTTGCCACCTCGCCCATCCGACCAAGCCG
CGCCTTTTGGGAACTGACCGCGCTTCGCCCCCTACACGCCCAAAGCGAAACAGTGGCT
CAAAATCCACGCGAGGGAATTTTCGCTTAGGCTGACGCGGACCGGACCGACCCCGCG
TTTACAGCGGCATCCGTGCCGGAACAGGCACGCGCCCGCGGATTCAAACCGCGATGACG
CTTTGCGCGCGTTTCGGGACAGGATGGCGGCACACACGCGCTGCGCGCTTTCATTTCA
CACCGCTCTTCCGAAACCCGAAACCCGCGGTCCGACGTGCGGTATGAAACGCTTAAGC
TGACGGGAAGTCTTTTACTGATTGCCCCGGAATGCCGTCTGAAAGGTTTTCGGACGG
CATTTTTTTTGGCTTTCCAGGATGGCGCGGATTCGTAAAAGCGGTGAGGTTGATTG
TAGGATGGGTGAGACCTGCCGAATCCGCGCATCTGCCAAATCTACCGCGCTCATTCCT
ACGAAAGTGGGAATCTAGAACGCGGGGTTAAGAAAACCTGCATCCCGTCATCCCACGAA
AGTGGGAATCCAGTTTTTGTAGTTTTCAGTCAATTTCCGATAAATGGCTTAGCATTGAATG
TCTAGATTTCCCGATGCGCGGGAATGACGAATCCATCCATACGGAAACCTGCACCGCGTC
ATTCCACGAAAGTGGGAATCCAGGACGAAAATCTCCAGAAACCGTTTTATCCGATAAG
TTTCCGCACTGACAGACCTAGATTCCCGCTGCGCGGGAATGACGAATCCATCCATACGG
AAACCTGCATCCCGTCATCTACGAACCTACATTCGTCATTTCCACGAAAGTGGGAAT
CCAGAAATCCAGACTTTAGATAATCTTTGAATATGCTGTTGTTCTAAGGTCTAGATTCT
CCGCTGCGCGGGAATGACGGGATTTGAGGTTTCTGTTTCGCGCTATTTCCACGAACCTGC
ATCCCGTCATTTCCACGAAAGTGGGAATCTAGTTTGTGCTGGTGGGAACTTATCGGATA
TAGTGGATTAACAAAAATCAGGACAAGGCGACGAAGCCGACAGTACAAATAGTACGG
AACCGATTCATTTGGTGTCTCAGCACCTGAGAGAATCGTTCTCTTGAGCTAAAGCGAGG
CAACGCTGTACTGGTTTTGTTAATCCACTATAAAATGGTTTCTTTAGATTTTACGTCT
AGATTTCCCGCTTGCAGGATGACGATTCGGGCACTCCTGACAGGTTAAATTCACAGGA
TAGCGATTCTGATGCACTGCATCCCCCCCCCAACAACTCCCCAAACAGCCGCTCGC
CCTGGGCGTTTTGCCGTTTCCCTGCAAAATCTGCGATACAATGCAGTCTGAACATTTATCC
GAATCCCAATCCGATGGATACCGCACAAAACACGCTGGGCAATAACCTATCCTATG
ACGGCAGCCGCTTTTACGGCTGGCAGAAACAGGCTGACGGCGTACCGACCGTTTACGGCGG
CATTTGAAACCCGCGCTCCGCCAATAGCAGGGGAAGCGGTTCCACCACCGTTGCCGCGA
GGACCGACACCGGCTGCATACCGCCCAAGTCGTCCTTTCGACACAACCTGCCGCGC
GTCCCAACAGCGCATGGTGGCGCGGTAATGCCACCTGCCCCGAAGGATTTGCCGTTT
TGCACGCCGACAGGTGCCCGCGAATTTTCATGCAGATTGACGCATACGGACGCGACT
ACCGTACCTGCTCGAATCCGCCCCCGTCCGTTCCTCCCTGCTCAAAAACAGGGCAGGCT

Appendix A

-480-

GGACACACCTCAAACCTCGACATCGGGCAGATGCGGCAGGCTGCCGCCCTATTGGTTCGGCG
AACAAGACTTCTCCAGCTTCCGCGCGCCGAATGCCAAGCAAATCCCCCTCAAAACCA
TCTACCGCGCCGACCTTACCCAAAGCTCAGGACTCGTCCGCCCTCGATTGTCAGCGCAACG
CCTTTTTCGACACCATGGTACGCAACATCATGGGCGCGCTCGTTTATGTGCGCAGCGGCA
GACTCAGCGTCGAAGGCTTCGCCGCACTGATTCAAGAACGACGCCGCTCAAAGCCCCGC
CGACCTTCATGCCCGACGGAATTTACCTGACCGCGCTCGACTATCCCGAGGCATACGGCA
TCATCCGCCCCAAATCCCGGAATGGCTTTAAACATGCTTGTGCGGAGATTTTGAAAT
CGGACAAACTGTTCAGGCAATCTTTTCCATGTTGACACTACCTCATCAAGTACTAACAT
TGTTATTACATAAACAGGTGAATATGGTACGTATATGATTCTCAACATACGCCAAATGGG
AAACTCGCAAGCGGTGATTCTGCCCAAATCATTATTGGGTCAAATAGGGGCGAGTAGACAG
CTTGGCTGTTTACAGTTGAAAAGGGCAATATTATTTTAAGCTGCCCTACCGTTCGCGAGGG
ATGGGCAGAAGCTGCCGCAATGCTTGTGCGAAACCGAGCAGGAGCATTTTTTTTCCGAAAT
TGAAACGAAGCGGATAAAGAATGGATATGGTAGTACGCGCGGAATCTATCTGGTCTCC
TTAGACCGACCTAGGACGGAATCAAAGACACGTCCTTGTGTCGTAGTCTCTCCT
CCTGAAATACACAACATCTCAAGACTGTGCTGATCGTTCCTATGACGAGCGGAAGCCGT
CCTGCCCGCTTCCGCGTCAATGTCCGCTTCAGGATAAAGACGGTTGCTTTTGCCCGAA
CAGATTAGGGCTGTGGATAAAGCCGGAATGGTCAAACATCTTGGCAATTTAGACAACAGT
ACGGCTGAAAACTGTTTTCGAGTATTCAGGAGATGTTTGCCTGATTGAATAGTCTGAAT
GGATTGTGTTTATTATAGTGGATTAACTTTAAACAGTACGGTGTGCTCGCTTCTCTCTCT
CAAAGAGAACGATTCTCTAAGGTGTTGAAGCACCAGTGAATCGGTTCCGTACTATTGT
ACTGTCTGCGGCTGCTGCGCTTATCCTGATTTTGTGTTAATCCACTATAAGACCGTCGG
GCATCTGCGACCGCTCATTTCCGCGCAGGCGGGAATCTAGAACGTGGAATCTAAAGAAACC
GTTTTTACCCGATAAGTTTCCGCGCAGCAGACCTAGATTCCCGCCTGCGCGGGAATGACG
GGATTTTAGGTTCTAATTTTGGTTTCTGTTTGGAGGAATGACGGGATGTAGGTTCTG
TAAGAATGACGGGATATAGGTTTCCGTGCGGATGGATTTCGTATTCCCGCGCAGCGGGA
ATCTAGAACGTGGAATCTAAGAAACCGTTTATCCGATAAGTTTCCGTGCGGACAAGTTT
GGATTTCCCGCCTGCGCGGGAATGACGGGATTTTAGGTTTCTAATTTTGGTTTCTGTTT
TGAGGGAATGACGGGATGAGTTTCGTAGGAATGACGGGATATAGGTTTCCGTGCGGATG
GATTCGTCAATTTCCGCGCAGGCGGGAATCTAGACCTTAGAACACAGCAATATTCAAAGA
TTATCTGAAAGTCCGAGATTCTAGATTCCCGCCTGAGCGGGAATGACGAAAGTGGCGGG
AATGACGTTAGCGTTGCCCTGCGCTTAGCTCAAAGAGAACGATTCTCTAAGGTGTTGAAG
CACCAGTGAATCGGTTCCGTAATTTTGTACTGTCTGCGGCTTCGTGCGCTTGTCTCTGA
TTTTTGTAAATCCACTCTAAGACCGTCCGGCATCTGCAGCCGTCAATTTCCGCGCAGGCG
GGAATCCAGACCTTAAGGCAGCGGCAATATTCAAAGATTATCTGAAAGTCCGAGATTCTA
GATTTCCGCTGAGCGGGAATGACGAAAGTGGCGGGAATGACGGTTAGCGTTGCCCTGCG
CTTAGCTCAAAGAGAACGATTCTCTAAGGTGCTGAAGCACCAGTGAATCGGTTCCGTAC
TATTTGTACTGTCTGCGGCTTCGTGCGCTTGTCTGATTGTTGTTAATCCACTATCTCCT
GCCGCGGGGCGGGTTTTGTCATCCGCGCTTCCGAAAGAACACGTCGCGGTTTTTTGTC
CGTCTTTATAACCCCGGTTTGCAATGCCCTCCAATACCTCCCGAGTAAGTGTGTAA
AATGCAATCTTAAAAATTTAAATAACCATATGTTATAAAACAAAAATACCCATAATA
TCTCTATCCGCCCTTCAAAATACACATCGAATTCACACAAAAACAGGCAGAAGTTTGT
TTTTTCAGACAGGAACATATAGTTTCAGACATGGAATCGCCGAAACGTGCGCGGTAA
TGCAAGCTAAGCGGCTTGGAAGCCCGCGCGCTTAAATTTCTTAACCAAAAAGGAAT
ACAGCAATGAAAAATCCCTGATTGCCCTGACTTTGGCAGCCCTTCTGTGTCAGCAATG
GCTGACGTTACCTGTACCGGCAACATCAAAGCCGCGGTAGAAACTTCCCGCTCTGTATT
CACCAGAACGGCCAAGTTACTGAAGTTACAACCGCTACCGGCATCGTTGATTGTTGGGTTG
AAAATCGGCTTCAAAGGCCAAGAGACCTCGGTAACGGCTGAAAGCCATTGGGCGAGTT
GAGCAAAAAGCATCTATCGCCGTACTGACTCCGTTGGGGCAACCGCAATCCTTCATC
GGCTTGAAAGGCGGCTTCGGTAAATGCGCGTTCGTTGTTGACAGCGTCTGAAAGAC
ACCGGCGACATCAATCCTTGGGATAGCAAAGCGACTATTGGGTGTAAACAAAATTGCC
GAACCCGAGGCACGCTCATTTCCGTACGCTACGATTCTCCGAATTTGCCGGCTCAGC
GGCAGCGTACAATACCGGCTTAACGACAATGCAGGCAGACATAACAGCGAATCTTACCAC
GCCGGCTTCAACTACAAAACGGTGGCTTCTCGTGCAATATGGCGGTGCCATAAAAGA
CATCATCAAGTCAAGAGGGCTTGAATATTGAGAAATACAGATTACCGTTTGGTCAGC
GGTTACGACAATGATGCCCTGTACGCTTCCGTAGCCGTACAGCAACAAGACGCGAAACTG
ACTGATGCTTCCAATTCGCACAACCTCTCAAACCGAAGTTGCCGCTACCTTGGCATACCGC
TTCGGCAACGTAACGCCCCGAGTTTCTTACGCCCACGGCTTCAAAGGTTTGGTTGATGAT
GCAGACATAGGCAACGAATACGACCAAGTGGTTGTCGGTGCAGGAATACGACTTCTCCAAA
CGCACTTCTGCCCTGGTTTCTGCCGTTGGTTGCAAGAAGGCAAGGCGAAAAACAATTC
GTAGCGACTGCCGCGGTTGTCGGTCTGCGCCACAAATCTAATCTGCAAGATTGGTATC
AACAAAAGCCTGTGCGCAGACAGGCTTTTTCTGTTTGGCTTTTTCTGTTTCTGTTT
GGCTTTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTT
TCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTT
TCTGTTTGGCTTTTTCTGTTTGGCTTTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTT
AAATATGCCGTCAATCCCGCGCAGGCGGAATCTAGTGCCTTGAATTTAGCTATTTAGA
ATAAATTTGAAACTTTAATCCCGTCAATCCACGAAAGTGGGAATCCAGGACGCAAAAT
CTCAAGAAACGTTTACCCGATAAGTTTCCGCACCGACAGACCTAGATTCCCGCCTGCG
CGGGAATGACGGGATTTGAGGTTGCGGCATTTATCGGGAGCAACAGAATCCGCTCTGCCG
TCATTCCCAAGAAAGTGGCAATCTAGTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTT
ACTTCCACTTCTGCTATTTCCCGCGCAGGCGGGAATCCAGTGCCTTGAATTTAGCTATTTA
GAATAAATTTGAAACTTTAATCCCGTCAATCCACGAAAGTGGGAATCTAGTTTTTGA
GTTTCAGTCAATCCCGATAAATGCTTAGCATTGAATGCTAGATTCCCGCTGCGCGG
GAATGACGGCGGAAAGATTCTATTTTCCCGATAATCGCCACAACTCTCAAATTCCTTCA
TTCTCTCAAAAACAAATCAGAATCCTAAATCCCATCATCCCATCTATGTGAATATAAA
AATTTTAAAAATTAGTGGATTAAACAAAACAGTACGGCGTTGCCCTGCGCTTAGCTCA

Appendix A

-481-

AAGAGAACGATTCTCTAAGGTGCTGAAGCACCAAGTGAATCGGTTCCGTACTATCTGTAC
TGCTCGCGGCTTCGTGCGCTTGTCTGATTTTGTGAATCCACTATATTTTCAACGCGA
AAGAATGCCGTCTGAAGCCTTTTTTCCGGTTTTTCAGACGGCATTTTTGTGTGACGTTTA
ACTGTAATCTTTCGCGCTTTTGTGACGAACCTGACCGCTTTTCTCCATGCCCTGCCG
TTGGGCTTTTGTCTGTGCGCGTAGTCGCGCACTTCTGCGTGATTTCATCGAGCAGAA
TTTGGGGCCGCACATCGAGCAGAAAGTGGGCGATTTCGCGCCTTCGGCAGGCAGGGTTC
GTCGTGGAAGCTCTCGGCACGTTTCAAGGTGAGGCTTAAGCGAAATTGGTCGCGCCAGCG
GAACTCGAAACGCGCTTTGCTCAGGGCTGTGACGTAATTGTGCGCCCGGCCAGCCTTT
GGCGAGATCGGCGCGGTGGGCGCGAGTTGTAGGTGATGATGCCGTTGCGCACGTCCTC
TTTGTGCGGCGAGCCCCAATGCTCTTTCGGGTAACGTAACAAAGCATCGCCGTGCCGTA
CCAGCCGATATTGGCCGCGCTATGCCCGAGGTGATGTGGTCGTAGCCGGGTGCGATGTC
GGTAACGAGCGGGCCGAGCGTGTAAGAGGTGCTTCAAAGCAGTGTTGCAGCTCTTCGGT
CATGTTTTCTTTGACGCGTTGACGCGGCACATGGCCGGGGCCTTCGATCATGACTTGATC
GTCATGTTTCCACGCTTTATCGGTCAATTGCCCCAAGGTGTGAGTTCGGCGAATTGGGA
TTCGTCGTTGGCATCGGCAATGCAGCCGGGGCGCAGGCCGTGCGCGAGGCTGAACGATAC
GTCATACGCTTTTATAATTTCGCGAGATTCGTGCAAAATGCGTGATAGAGGAAATTTCCCG
ATGATGTGCCAAACACCATTTTCGCATAATCGAACCGCGCGGAGACGATGCCGGTGAG
GCGGTTGGCGGTGTCGCGGCACATAACGCGACGACGCGCGCGTGATGGTGAATAGTC
CACGCCTTGCTCGCGCTGTTGATGAGGGTGTGCGGGAACAAATCCCAAGTCAAATCTC
GGCGATGCCCGCGGTTTTTTCACGCTTGGTAAATCGGCACGGTGCCGATGGGGACGGG
CGCGTTGCGGATAATCCATTTCGCGCGTTTCATGGATGTGCGCGCGGTGGACAAATCCAT
AATCGTGTCCGCGCCCCAACGCGAGCGACACACCATTTTTTCGACTTCTTCGGTCAGGCT
GGAGGTGACGGCGGAGTTGCCCAAGTTGCCGTTGATTTTGACACGAAAGTTGCGGGCGAT
AATCATCGGTTTCAGTTTCGGGTGGTTGATGTTGGCGGGAATAATCGCGCGTCCGGCGGC
GATTTCTTGGCGCAGCAATTTCGGCGTGATTTGGTCGGGATGGGTGCGGATGTTGCGACC
GAAACTTTGCCCGCGGTGCTGTTCCAAGAGTTTGGCGTATTCGGGTTTTTGGGACAATTC
GTCTAATTTTAAAGCTTCGCGTATGGCGCAAACTCCATTTTCGGCGGTGATAATGCCTTG
GCGCGCGTAGTGAAGCTTACGTTACGTTGCTGCGCGTTTTTCGCGCGCGCGCGGGGTGAT
TTGGTTGAAACGCAGATGGCGGTTTTTCGGATCGTGTGCGCGTTTCGATGCCGTATTCGCT
GGAGAGCTTGGCGAGGATTCGGTATCGCCGCGTTTCGTCACGCCAGCGGTGCGGATGTG
CGCGACACCTTGTTCAGGTGATATGCGCGCGCGGTGCGCGTACACGCCGTGTTGTC
GTAGACGGGAATCGCGGATTGGCTTCCGTACCTTGCGCGGTGTAGGTGTGCTCCTGACG
GATTTGCGCGCAAGGCACGCGGATGTGTCGCGCGGTGCCTTGACAGTACACGCGTTCCGA
GTTCCGATATTTAAAGCAGATGCCGATGCTCTCGCTCAAGTCGGCAAGCTCGCGCGCTTC
GTTGCCGGAAGTTTGGCGGTTTTTTTTTGGCGTAGTCATAAAAAAATGCTCCTGTTTTCT
CGTTTAGAATTAAGAAACAGGAGCGTTTTGCGTTTTTCAGACGGCATTGAAACCAATG
CCGTCTGAAAGCAGAAATCCGTGAAACCTCCCGACGCGAGTATTATCCCGATCGGGTGTA
AAGGATATTTCTCAGCCGCTTAAACATCAGGCAGCACCCCTGTTTCAATGTTAACCAAAA
TTAAATCACGAACATGAACTTTTGTAAAGAAAATAATATTTCAAATCAGGCATAAACCGC
CGGACGCGCAAAATTTATGATTTTTCGCGGAAGTAAATGTTGACACATAAAAAATCTGC
CGTATAGTTTCATCTTCGACGCGGGATGGAGCAGCATGGTAGCTCGTCGGGCTCATAAC
CCGAAGTTCGTAGGTTTCAATCTGCTCCCGCAACCAATATCAAACCCCTCGGTTCAAT
GCCGAGGGGTTTTGTTTTGCTGTTTCTGTTTCTGTTTCTGTTTCTGCGCCTCCGTTTTTTG
CCGGATTTTCTTCCGCGCGCAATATCGGAACGCGAGACCGCGCTGTTTTCGGTTGCA
AATTCAGGCAGTTTGGCTTACATCTTCCGATTTGCTTCAAGAAAGCCAACCATGCCGAC
CGTCCGTTTTACCGAATCCGTGACCAACAGACCTTGATGCTCTGTTGAGTGGGCAAA
AGCAAGTTACGGTGCAGAAAGTTGCTGGAACGCTGTATCTGAACGGTCTGCCTTTGGG
CAACCTGTCGCGCGAATGGGTGGAACGCTCAAAAAAGACTGGGAGGCAGGCTGCTCGGA
GTCTTCAGACGGCATTTTTCTGAATGCGGACGGCTGGCCTGATATGGGCGGACGCTTACA
GCACCTCGCCCTCGGTTGGCACTGTGCGGGGCTGTTGGACGGCTGGCGCAACGAGTGTT
CGACCTGACCGACGGCGGGCGCAACCCCTTGTTCACGCTCGAACGCGCGCTTTCGCTC
TTTCGGACTGCTCAGCCGCGCTCCATCTCAACGGTCTGACCGAATCGGACGGCGGATG
GCATTTCTGATAGGCAGGCGCAGTCCGCACAAAGCAGTCGATCCCAACAACTCGACAA
TACTGCCCGCGCGGTGTTTCCGGCGCGGAAATGCCGTCTGAAGCCGTGTGTCGCGAAAG
CAGCGAAGAAGCCGTTTGGATAAAACGCTGCTTCCGCTCATCCGCCGGTATCGCAGCT
GCACAGCCTGCGCTCCGTGACCGGGGTGTACACAATGAAATCCTGTATGTATTGATGTC
CGTCTCGCCGAAACCTTCTGCTGAAATCAGGATGGCGAAGTGGCGGGTTTTGAGAA
AATGGACATCGCGGTCTGTTGGATGCCATGTTGTCGGGAACATGATGCACGACGCGCA
ACTGTTTACGCTGGACGCGTTTTTGGCGTTACGGTCTGATTGATGCCGCCATCCGCTGTC
CGAGTGCTGGACGGCATACGTTTATAGGATGCGCCATGCTTGAATGAACGGAATCTGC
AAACGCTTCGGCAATAAAACCGTCGCGGCAACATCTGCCTGACTGTGCGGCGCGGCAAA
ATACTCGCCGTTTTTGGGGCGGTGCGGCTGCGGAAATCCACCCTGCTGAATATAATTGCG
GGGATTGTCCGGCCGACGCGGGGAAATATGGTGAACGAGAAACATTACCCGTATG
CCGCCCCGAAACGCGGTATCTGCTGATGTTTCAAGATTACGCGCTGTTTCCCCATATG
AGTCCGTGGAATAATCGGCATTTCGGTTTGAATAATGCAAAAAATGCCGAAGCCGAAGCC
GAACGCTCGCCATGGCGGCACTTGCAGAGTGGGACTGGAAAACGAGGCGCACCGCAAG
CCTGAAAAACTTTCCGGAGGCGAGAAGCAACGGCTGGCGTTGGCGCGCGCTTGGTTGTC
CGCCCTTCCCTGCTGCTGTTGGACGAATCGTTTTCCAGTTTGGACACGCAATTTGCGCGG
ACGCTGCGCGCTTTCGGGGCGGTGCGGACGATCCGAAACGCGCGCATCCTGCCGTTTTGTA
ACGATTCGCCCCAAGAAGCCTGTACGACGCGAGACGAAATCGCCGTGATGCATAAAGGG
AGGATTCACAAATACGGTACGCCCCGAAACATTGGTCAAAACACCATCTGCGTGCAGGTC
GCCCCGCTGATGGGTTTGCCTAATACCGACGATAACCGCATATTCCGCAACATGCGGTG
CGTTTTGACCAAGACGGCATGGAGTCCCGCTATTATCCCGTACCTGTTTGCCTGAATCG
TTCAGCTGTCCGCTCCATCCGGAACACGGCATCCTGTGGCTGAACCTCGATATGCGG
CACGCCGGGGCGGTATCGGGAAGGATACGGTACGCATCCATATCGAAGACGGGAAATC

Appendix A

-482-

GTCCGCTTCCGCTGATGCTTCTTAAAAACAAAATGCCGTCTGAAAACCTTTTACAGACGGCA
TTTTTTTACCAGCAGCATATTTTTTTATCAGGGCTGCAAAATTTTATCCGAAACAAAC
AACAAATCTTTTCATCGTCATTTCCCGCGCAGGCGGGAATCTAGAACGTAAAACTAAAGAA
ACCGTTTTTCCCGATAAGTTTCCGTGCCGACAGACCTAGATTCCCGCTGCGCGGGAATG
ACGGATTTTAGGTTTCTGATTTTGGTTTTCTGTTTTGAGGGAATGACGAGACTTGAGAT
GGCGGCATTTATCGGGAGCAACTGAAACCACCTGCCGTCTATCCCGCAAAAGCGGGAAT
CTAGAACCACACCGCAAAAATTTATCCGAAGCGACAACAATCTTTTCATCGTCATTCC
CGCGCAGGCGGGAATCCAGAACGTAAAATCTAAAGAAACCGTTTTTCCCGACAAGTTTCT
GTGCCGACAGACCTAGATTCCCGCTGCGCGGGAATGACGGGATTTTAGGTTTCTGATTT
TGGTTTTCTGTTTTGAGGGAATGACGAGACTTGAGATGGCGGCATTTATCGGGAGCAAC
TGAAACCACCTGCCGTCTATCCCGCAAAAGCGGGAATCTAGAACCACACGCGCAAAAA
TTTATCCGAAGCGACAACAATCTGAGACCTTTGCAAAATTCCTTTCCCTCACACAGCGG
AAACCCAAACACAGGTTTTGCTCTATTTTCGCCCCAAATACCTCCTAATCTACCCAAAT
ACCCCTTAAATCTCCCGGATACCCGATAATCAGGCATCCGGTCGCTTTTAGGCGGCA
GCGGGCGCACTTAGCCTGTTGGCGGCTTTCAACAGGTTCAAACACATCGCCTTCAGATGG
CTTTGCGCACTCACTTTAATCAGTCCGAAATAGGCTGCCCGGGCGTAGCGGAATTTACGG
TGCAGCGTACCGAAGCTCTGTTTCGACCACATAACGGGTCTTCGACAAATATCGGTTGCGT
TTGGTTTTGCGCCTCCGTACGCGGACGGTTGCGGCAAGGCTTTGCGCATATAATAGTGGATT
AAATTTAAACAGTACGGGTTGCCCTGCCCTGCGGTACTACTGTACTGTCTGCGGCTT
CGTCGCCTTGCTCTGATTTAAATTTAATCTACTATAATGTGCAGTTTCTCGATATAGCCT
TCCGCATCGGTGCGGGTATGTTGTTGTAACCGAGTTGTAGAGGCGGTTTTTCTTGATC
CAACGCGCATCGCTGTCTTACTCCGTGTGGTTTGGCCGCTGACTTGTCTTCTTCATCG
ACTTCTATGGCCTGACGCTGTTTGCCGTGCGCGGTCTGAATAATGGTGGCGTCAATGACG
GCGGCGGATGCTTTCTCTACTTTTAAACCTTTTTCGGTCAGTTGGCGGTTGATCAGTTG
AGCAATTCGGACAGCTGCTGTTGCGCCAGCCAGTTGCGGTAGCGGCATAAGGTGCTG
TAATCGGGGATGCTCAGTTGCTCGAAACGCAAAACAGGTTGAAGTCGATGCGGGTAATG
AGGCTGTGTTTCAGTTTCGGGATCGGAGAGGCTGTGCCATTGTCCGAGCAGGACGGCTTTG
AACATGGACAGCAGCGGATAGGCGGGACGCGCGGTTGCTCGAAGGTAACGGGTTTTT
TGACGGTTCAGGTATTGTTTCGATCGGCTGCCAATCAATCACTTGATCCAATTCATAGC
GGGAAGCGGTTGATGTTGTTGGCAATCATGGCTTGTGCGGTTGCTGGAAGAAGGTGCTC
ATGGAATAATCTCCTAATGCTTTGGTGGGAATTTAGGGGATTTTGCAAGTTTCAACAA
GTTTTCCGCACCGACAAACCTAGATTCCCGCTGCGCGGGAATGACGGGATTTTAGGTTTCT
TGATTTCCGTTTTCTGTTTTAAGGGAATGACGAGACTTGAGATGGCGGCATTTATCGGGA
GCAACAGAAACCACTCTGCCGTCTATCCCGCGAAAGCGGGAATCTAGAACCACACGCGAC
AAAAATTTATCCGAAGCGACAACAATCTTTTCATCGTCATTCCCGCGCAGGCGGGAATCT
AGAAGCTAAATCTAAAGAAACCGTTTTTCCCGACAAGTTTCTGTGCCGACAGACCTAGA
TTCCCGCTGCGCGGGAATGACGGGATTTTAGGTTTCTGATTTCCGTTTTCTGTTTTAAG
GGAATGACGAGACTTGAGATGGCGGCACTTATCGAGAGCAACTGAAACCACTCTGCCGT
ATTCCCGCGAAAGCGGGAATCTAGAACCACACGGCAAAAATTTATCCGAAGCGACAAC
AATCTTTTCATCGTCATTCCCGCGCAGGCGGGAATCTAGAAGCTAAATCTAAAGAAACC
GTTTTTCCCGATAAGTTTTCCGTGCCGACAACCTAGATTCCCGCTGCGCGGGAATGACG
GATTTTAGGTTTTCTGTTTTGTTTTTCTGTTTTGAGGGAATGGCGATTTTGGGTTTTCT
GTTTCGGTTTTCTATTTTGAAGAATGGCAAAATTTAGATTGCGGGCATTGTTAAGTAT
TTCTATTTTTTACCTGCCGTATTTATTTCCGCCCTTGAAGTCGGCTTCTTCTCGACAG
ACAGCTGTTCTATCTGTTGATCAGCTTTTCCGACTTCTCTCTGCTCTCGCAGCGGATGA
CTTTCACAAATCACTTTTCGAGCTGTCCGACATTGCTGTGCAGAATGATGTTTTGACGG
GCAGGATGTTGTTGGGTTTATGGAAGAACGCGCGACGCCCATACCCAATAAAGCGGG
TAAACGCGGTATCCGCGCGCATCTCGCGCATACGGATACGTTTGTCCATGCGGTTGG
CGGTACGGATGACGTGTTGCAGCATTTTTCAGCACGGCGGATGGCCGGGCTGGTAGAGGT
GGCTGACGCTGTGCTGCGCGCATCGACGGACAAGATGATTGAATCAGGTCGTTGGTAC
CGACGGAGATGAAATCGACCAGTTTCAAATACTGCCGACGGTCAGCGCGGACAGCGGAA
TTCAATCATACAGCCGATAGCCGACTTTACCGAAGGCATCGCCGCTTCGCGAAGCTGCG
GTTGCGCGGTGTGAGGTGGATGAGGCACCTGGCGCACTTCGGATACGGAGTAATCATCG
GCCACATCATCCGACGGGCGGTGTACCGCGCACGGAGGATGGCGCGCATCTGGGTGC
GGAACATGACCGGTTTCGGCAAGGCACAGCGGATGCGGTCATGCCAGCGCGGGTTGA
GGCTGCCGTTGGGCGTGCTGTTTTTCCCGAACAGCGCGGGTTTTTGTCCACACCTAAAT
CGACTGTCCGTATCGTTACGCTTTTGCCTTTCATTTTTTGAACATCGCGCTGTACACTT
CGTACTGCTCGTCTTCAGACGGCATCGTATCGCGGTTACAGTAAAGAACTCGCTGCCGA
ACAGCCGATCCGCTGTCGCGGAGGTTGTGACGCGGTTTACGCTCTTCGCGGATTTCTA
TATTGCCACAAAGCTCGATGACAGACCCGTCGGCGGTGGCGGCGCGGTTTTTTGAGCT
TGTTCAAATCGCGTTTGTGGCTGCGGTATTCGCGGCGACGGCGGCGGTATTCGTTCAACA
CCGACTCATCCGCGCGCATAAATCAACACGCGGTTGATACCGTCCACAATGACCGTTTCG
CTTCGGTAATCAGTTTGGCGCGGTTGTGACGCCCCGACGACGGACGGATGTCCAAGCTCC
TGCCCAAAATCGCGTATGCCCGGTGGGGCCGCGGCATCGGTAACGAAGCGGCAATGC
GCTGCTTTTAAACAAACCGGTGTCGGCGGGCAAGGTCGTTTGAATCAGAACGGTTT
CGTCAAACAGGTTGTGCGCAACTTCCAACCTGTTGCCCTGCCGATCAGGTTGTTGTGGA
TGCGGCGGACGACTTGACGATATCTGCTGCTGCTTCAATGCCCACTCGCGGTTGATTT
TTGTTTCCCTTAAATATCAGGTTTCCGCGCAAGGTAACATCGGTCAAGAGCATCA
GGTGTAGCGAGATGAACGCGCCCACTCGGTGCGGGCGTTTTTCGGGAATCGCGCTGCCGA
GCTGTTCCAACCTTTGCGCGGTGGCTTTGACGGCGGCATCGAAAGCTTCGGCTTCGGCAT
CGGTGTCGCGCTCCGCAACATCATACTGCGGCACTTCTCCGTACCGCGCGCAATCAGGT
GGGCGCAACCGACGGCAATGCCTTTGCCCGCGCCACGCGGTGACGACGATACCTATTA
TTCGCCCTCGCCGAAGTAGCGGTTGATTAGTCGGTCAGGGCGCGCATCGCTTCGCCCTC
GTCCGCGCGCTCCGTCTCCAGTTTCGATGACCGTACCCTTGCGCGCGCGAGCATCATCAG

Appendix A

-483-

CCCCATAATGCTTTTGCCGTTGACGCGGCTGTCGTTTTTCGTAACCCAGACTTCGCTTTT
GAATTGGGACGCGGTTTGGGTGAACCTTGTGGACGCGCGGGCGTGGAGTCCGAGTTTGT
GATGATTTTCGATGGATTGTTTGGCATTTTCGATTCCCGTGTTATGTATATCGGCAGCAGA
CGCCGTTTAAAGTGTTCCTGCGCTGCCGCTTCTTCAGACGGCATCGCCGCTGCCCGG
CACACCAAATCTTCGGGCGCGGACGTGATGGCGAAAATGCCTTTTACCGCCGCTCCCTG
ACGCATTCGGTAAGGCGGCAAGGTCTTCCGCCCGCGCGCAATATTGGACGGCCTTAACC
ATCATCGGCGGTTTCAGCCCGGTCAAATCGCCGATTGTTCGCGCACGAGGCGCGG
GCGGCATTGCGAGGGGTGCGACCGGAAAATATCGGTCATAATCAGCACGCCGTCGTTGTG
GGAAATTCCTGAAGCGCGCAATGGCGTTGTGTTGATGTCGTCTTGGTCTCCCGTCGGC
TGCACGCCGAGTATCGGACGTTTTTCAGGCGAGTCCGCCCGGAAAAAATGATGCGCCAGC
TTGCGGTAGGCTTCGCCATGTTTTCGTGTGTGATGATTAAGAGCCCTATCATATTATGC
GTCCTGTTCTCTATTATCTGCCGCGTATGGGCGCATGCCGTCTGAACAGCCTTCAGA
CGGCATCGCCGCTTATTTTCGCCCAATGCGTAATCTCGCCAGATTGCGCCAGCAGC
CCGCGCATCCGATCCGTAACCGAAAACATAACGGTTCGGCACATCCAGTCCGACATAAT
CGGCTCGGATAGGCTTGGGTTTGTCAATCAGCTTGTGGCGAACACCGCCGACGGCAGC
TTGCCGACCCATTTCCAAAAGTTTGGCTTGAATGGCGGACATCGTATGCCCTTCGTCCA
AAATATCGTCCAGCACGACGAGTGCCTGCCCGGATTGTTCGCATCGGGCATAACGCT
TCCAGTTGAACGCGCGCCCTCCAGCTTGTGCGCGTAACGGGAAACGTGAACATAATCAA
AATCTAAGGGAAAACGCAACAGCGCGCAGCAACTGCCCGTAACACCACCGCGCGCCCA
TCACGGGCGAGCAGCAGCGGATATTGCGCGCCAAATCAGCGTAATCTCGTCCGCCACTT
TTTGCACTGCGGCGACGGCATTTGGCTTGGTGAACAAAAGATCGGCGTTTTCAAGCATCG
CCTGTGTTTCAAGGCGTTTGGTTTCTAAATCGGTATATGTCGGAATCGGTGCGTAAAAG
GAAAATATAAACCAAAGTATCGGATGCCGTCTGAACTGTCTGCTCAGCGGTGCGTACG
CACGCGCAAAATGTGGCAAAATTTCCGCGTGCCTTTCCGCGTAAGCCACGGTAACGGTA
GGTAATCAGTGTGCGGATTTTGGCGGGTTGTGCGGCTCTTATCTTTGAAACCGCTGCC
GATGCGGAATTCGCGGTGCCGTTTTTGCAGCGACCGCGCCAGCGTCCGGCGTTTCG
CCCTTTGCCCTCATAGTGC CGCTTACCGTGCATTCGTGCTGCTATTGGCTTTTCAGCTT
CAATAATTGGCTCTCCTGCCCGCTGTAAACGGGATTCCGGCTGACGACGATCAGCGC
TTCGCCGCCCTGCGCTTCGATTTGTTTTAAAAGTCCATCGCGTGTGCCGTCGCGCAC
TTTGATTTGCGGGATGATGGTAATCGGCGCGTTCGGATGCGTTTTTCAGCCACTGCGTGC
GACTGCCAAACGTTGGTAGAGTTGCCCTGCGCCTTGGGTACATCGAAAACGTGCAGGCG
GATGCGCGCCGCTCTGAAGAAACAGAACGACGCGTAGCGGAAATCTGCTCGAACTGACC
ACGTCCGCTATACAATTCGCCGTCAAAGGATAAGCGGAAACTGAGCGGTAAAACCTTT
GGGCGGAGCAACGCGTAGCCCTGACGGCTCATCAGGTGCTTTCGCTCCCAATAGGCGCG
CAGCCGCTCAGGTTTCTGCTCATCGCCAGCGCGCAATATCCTGCCCTTTGTATTCTG
CGCCAGCATCAAATCCGCCCGCTGCTGATGCAGGGATGAAAACCGCGTAAAAATCGG
TATGATGCCCGCGATTGTCTTCTTAATCATCTGATTCGCCCAATATCAAAACGGCGGCA
AACCGCCATAAAACAAACGGCAAAACCGATGCCGTCTGAAAACCGTTTAGGAACACGCC
GATGACCCCTACGTTTACGAAATCTTCCCGTTACCCCTTCCGCCAAAACGTGACCCCTGAT
TTGGGAGCAGCAAGCGCGCAAGCGTCTGACCGATGTCGGCGCGACGTGCCGTTCCT
GCTGCAAGCGTTGGCAAAACCGCAAACTTACGCTCAGGGCAATCTGGCTGACGCACGGCCA
TCTCGATCAGCGCGCGCGCTGGTTCGAAATGTTGAAAACGCATAAAGTCCCTGTCTCGG
GCCGATCCGGACGATGAATTCCTGCTCCAATCGCTGCCGCAAAACACCGCGCAATACGG
ATTTCCCGTCTCGCCCGCTTTGCGCGCAACCGTTGGCTCGAAGAGGCGAAACGCTCAC
GGTCGGACGCTATGCCCTTCAAGTGTGCTGATATTCCGGGCCATACGCCGGACATATCGT
CTTTTATTGTGCCGAGGCGGAATTGCTGATTGCGGGCGACGTGCTGTTTTACGAAACCAT
AGGCAGAACCGATTTTCGCCGCGGCAACACGCGCACTTAATCAATAATATCCGCAACAA
ATTATTCACCTTCCCGAAACCGTGCAAGTTGTGCGCGGACACGGGCGTATGACTTCCAT
CGGACAGCAAAAGCGCGCAACATCCGTTTTTCTAACCGCCTTCCCTACGCTTTCAGACGG
CATCATCTGCACTGATGCCGTCTGAAACACAAAAGGCTCAGACAACCGCCGCTTGC CGG
TGTACCTCGCCGACAAGGCTTTGGTAAGTACTTCAAACAAACCCAAAATCAGAACCAGT
ACAGTTACGCCCGCGCTTTCGGCATTTCCCGCCCGGCTGAAACAATATTTTCCGCAAAAG
TCAGACTGCTTCATCTTCTGCCGCGTATTCCAAAGATTCCGACAACGCCGTGTTTCATT
GGAACGCTCGACCAAATCCCGTTGAAGTTGTTGCTGCTTACGCCCAACAGACGCGAG
TTTCTCGGCGCTCCGACCAGATTCCCGCGCCCTTCGGCAAGTTGCTTGAATGCCGTCTG
AAAACGTCTTTGCGCTGATCGATGCTTTCGCGACGCTTTCGAGCGTCTGTACGAAGCC
GACAAACTTGTGCTACAGCTTGGCGCCTTCGTCCGCAATCGCCAGTGC GTTCTGATTTG
CTGTTCTGTTGCGCCAAATATTCGCCACCGTCTCAAAGTCGCCAGCAGCGTACTGGGGCC
GACCAGCATAATCCGTTTTGTGCAAAACACTCTTGAACAAGCCCGCTCATTCTGCAACGC
CAACAGGTAGGCCGTTTCGACAGGGATAAACATAAAGACGAAATCCAATGTGTTACACC
TTCCAAATCGGTGTAATCCTTCAGCGACAAGCCTTTCATGTGTGACGGATGCTGGCAAC
GTGTGCCGCGAGTTTCGCGTGC CGCGTATCCGCATCCGCGCGCTGCGTGTAGCGCACATA
AGCTGTGACGAGACCTTGAATCAATCACAATCTGCTTGTGTCGGGCAGGTTGACCAA
AACGTGCGGCTGGAGGCGCGCGTGC CGCGTCTTCTCTTTTCGACGGATGCCCGCTG
AACCACATATTTCCGCCCTTCTGAAGGCGGAAATTTCCAAAACCGTTTCCAGAAATCAT
CTCGCCCAATATGCGCAACCTTATCTGCGTACCGGTGACGCGCTTGGTCAAGGCGCTT
TGCTCGCTGTGACGTGCGCGTTCAACCCCTGAAGCGGTTCAATTCGTTTTCACAGCT
CAGCCGCTGCGCGGATTCTTTATCATAGGTTTGTGTTGACCAACTCGCCGAAACCGTGGAT
GCGTTGCTTTAGCGGGTTCAAACCTGATGGAGCTGCTCGCGGTTTGTGCTCGGTAACG
GCGGCTTTTTTCTTCAAATCGTGTGGAAGATTTTGAAACTGATCGCTCAAACTTTT
GCGCGCTCGCCAGACAGGACAGCTTCTCTTCAAGCAAGGCGTTCCTGTTTCGATTG
CGTTGCCAAACGTTCTGTTTCAACCGCAAACCTGTGCTTTTCTGCAACTCGGTATG
CGACTGCTCAACCGCTCCGCTTCCGCTCTTTTTCTGCAAAATGGGCAATCTGTTTTTC
GGCTGCGGCAAAACGGTTGCCGACATCGGAAAGGTCGTTTGCAGGTCGCGGACAGTTG
GCGGCTTTCTTCAAATCGGTTTCGATTCCTTGGCGGATTGGCGTTTCAAGGCATATTG

Appendix A

-484-

GTCCGGCAAACGCTTCCGTTCTGTCGAGCTGCGTTGCCAAACGTTTCGTTTTCAACCGC
CAAACCCCTGTGCCTTTTCTGCAACTCGATATACGACTGCTTCAGCCGCGCCGACTCCGC
CTCTTTTCTGCTGCAAAATGGGCAATCTGCTTTTCGGCTGCGGAAAAACGTTGCCCAAAGC
ATAATTTTCGTCTGCAAAATGCCGGTATTTCCCGTCCAACACCGCAATTCCGACACGGT
TTTGCCGTGTGCCTGTTGACAAAATCACATCTTGCCGCCCTTTCCGCCAGGTGCGCGTT
CAAACCCGCAAACCTGCGCCTGAAACCGGCCCTTCATCAGCAACCATGTAAACAACACGCC
CGACACCAACGCCGCCAAAGGCAGCAAAACAGTCATCAGTTCCATCAATTATCCTAATAT
TCAAACATTTTACACCGGACAAAACCGCCGCTTATTCGATTCTACCTGTTTGTTCGAC
ATAGCTCAAAAAATATAGCGGATGGCTTTAAACCTGTTGACATCGCCTTACCATGCT
GCTTGCGGTTTTCAGACCTTTTCTAATTCATATCAATCTGCCACAAACCCCTGATTAACT
TCCCGATGTCTGACATTTTAGAATGATGCGCTCTGAAATGTTGACGCTATGTTTCAGACG
GCATACGGATTTCAGGCTTTTCAAACGGCAGGCAAAATGAAAAAGGGCAAACCCCTAAAGG
ATTTGCCCTTTTGTTCAAACGCTTAGTGATGCTCTTCCAAATATCTTTATTTAGGAAG
TAAGCCAAAGGCAGCATACCCGCAAAATAGGAAATCATCAGACATAGCCTATACGTTTG
CGTTGCAAGTTTGCAGGTTTCGCCCATGTACACAAGGTAATTGACCAAAATCGCGTACATAT
GCGTCGTACTCTTTTGGATCACTTTGCCGTTAGGCAGGCGGCGGCTGTGCAAACCGTA
GATTTCCCAATACAGCTTAGGCTTCATCTCGCCGTTGTCGCTTTTACCATAACCGGCTGA
CCTTTGGCATCCAACCTCAACGGCTTGAACACCTTGTGCTCCACAAACGGGTGGGGCATA
CCGACTTTATCGAATACAGTATTGTTCCAGCCGCTCGGACGGGTGCGATCTTTATAGAAG
CCGCGCATATAGCGCTAAAGGTAGTCTGCACTTTTGGAAACGCGCAATCAACGTCAAATCG
GGCGGAGCAGCAACCAACCATTTTGCCGCATCTTTCCGGGTCATCGCCGAATGCATGACA
TCGCCGACATTATCGGTGGTAAACATCAGGTTTTCTTGATTTCTTCGTCACTCAAACCG
ATGCTTTTCAGACGGTTGAAGCGCATACCGCTTGACAGAGTGGCAAGACAAACAGTAGTTT
GTAAAGATTGCGCACCGTGTGTCAGGCTGACTTGGTCACGAGGTCGATATCGACTTTT
TCGTAGTGTCCGCGCCGCTGCGGACGGCTGCACTCATAGGCACTGCCAGCAATAAGGCA
GCAAACAGTTTTTCAGAGTTTGTTCATTTTCGTGCCCCATCAGATATTTGGTTGCAA
ACAAGTAAGCACAACAACGGTAATACCGACGTAACAAAGAACATAATTTTTTGTTTAG
TAGTGCTCATGGTTACGGCTTCAGGAACCTGGTTGTTGGTATCCAGTTTGGTATAGAAGC
GCATACCCAGGAAGATGCAAAGTAGACGAAAGACAGGATACGTGCAACCAAGTACGCG
TATCAGTTGCTACCATTCACCCAAAATACCCAAACCGATGAAGGCAATGATGAACAGAA
CCAATGCGGTTTTGAAGATTGGGCGCGATAGCGGACAGATTAACTCGCCTTTATCCA
ACCAAGGCAGCAAGGCGATCAGTACAACTGCTGCAACCATACCGATTACACCCCATACCT
GAGTACCGGCAAAGGAAGGAATCGCACGCAAGTTGCGTAGAACGGAGTGAAGTACATA
CCGGCGCAATGTGCGGAGGTGTTTTACGCGCATTCGCTGCATCGAAGTTTGGCGCTTCCA
AGAAGTAGCCGCGCCTTCAGGTGCAAAGAACATCAGGCAAGAACAGCAATCAAGAATA
TCGTTACTGCCAATATATCATGCACAACATAATACGGAAGAAAGGTATGCCATCTAGAG
GGACACCGTTTTTCATCTTTTCAGCTTTTGTATTTTACACCGTCAGGGTTGTTGGAACCCA
CTTCATGCAAGGCAATGATATGAGCCACAACCAAGCCGAGCAATACCAAGGTACAGCGA
TAACGTGCAAGGCGAAGATCGGTTCAAAGTAACATCGGAAACGTTGAAGTCAACCGCGGA
TCCAAGTGGACAATCAGGACCGATAACAGGGATGGCGGAGAACAGGTTAATAATTACCT
CGCACCCCAAGGACATTTGACCCCAAGGCAGCAGGTAGCCCATAAAGGCTTCTGCCA
TCAATGCCAAGAAAATCAGGGAACCGAAAATCCACCAATTCGCGCGGTTTTTTGTACG
AACCGTAATCAGACCACGGAACATGTGCAGATAAACGACGATGAAGAAGAAAGATGCGC
CGGTAGAGTGATATAGCGGATAATCCAGCCGCGGACACGTGCGCGATGATGTACTCTA
CTGCGGTAAAGGCAGCAGCGATGGTAGGCGTTAAGGTTGCCGTCGCGTTGTAGTTCA
TGGTCAGGAAAATACCGCTGACGATTTGAATCACCAGCACCAGCATAGACAATGAGCCGA
AGAAATACCAGAAGTTGAAGTTTTTAGGCGCATAGTATTCAGACAGATGCTCTTTCCACA
TTTTACTTAATGAAAACGGGCATCTACCCAGCCTAACAAATGCTTTTGCTTTGCTATTGG
TTTGGTTTGCCATAATTTATCGTTTCTTATCTTAGTCTTCGCCACCAAGATAGTTGTGT
CGCTCAAGTATTTATATGGCGGGACAACAGGTTGGTTCGGGCGAGAACACCTTTATATA
CGCGGCCCGCAAGTCGAATTTGCAACCGTGGCAGGGGCGAAGAAGCCGCTTTCCAGT
CTGCACCAAAATCGCGGGGCAATGTGCGGACGGAAGGTGGGCGAGCAGCCCAATGGG
TGCAGATACCGATGGCGACAAGGATGTTCCGGCTTAATCGAACGGTCTCGTTTTTAGCAT
ACTCCGGCTGCTGTTCCGATCGGAATTGGGATCGGTAAGTTCGCCGTTACGGCCTTTCA
GGTCTTTAAGCTGCTGATCTGTACGGTTGAGCACCAAAATCGGTTTGCCTTGCCACTCGG
CGTTCAGCAGCTGACCCGCTTCGATTTTACTGACATCCACCTCGACGGCAGCACCAGCGG
CCTTGGCTTTTTCCGAAGGAAAAAACTGGCCACAACCGCGTTGCCACACCCAATGCTG
CCACTCCGCCCGCGCGCAGGTGCGAGTGTGAGAAACGGCGCGCGGCTTGTGATT
CTTGATTATCCATTATTCAGTCGTCCTAATATTTTGGGAATACCGAGCCATTAAACGTTG
CAATTTTACCCAGTTTGCACTGATCTCAAGCATTATTTAAATAAGGTAAAGTTTAT
GATATTTCTCAAGACTCAAGCCGATTTGTTTTCGTCAAAATGGCACACTTCCAACCCGAA
AACCTCTGCGCGCGATTCTGCCAGCGCGCTACGCCGTAACGTTCCGTCGCGTGATGCC
TGCCGAAATGAAAGCCGTACCCGTTTCATTGGCAAGGTGGTATTGGGCTTCAGAGATTT
CCCCGTCAAATACAGATCGACACCTTCGTCTATTGCCGCTGAAAAAACCCCTGCGCCCC
GCCGCTGCACCATGCAACCCGTCGGATTTCCGCTTCGGGATTGCCGATAACGACAGGCTT
ACGTTGCAAAACGTTTTCATATGCGCCGCAATGCGCCGAGTGCTTGGCTTGTTCAG
GCTGCCGAGTTGAGCAGGTTTTGTTCCGCGAACCGTTTTTCTGTGCAAAACCAATCT
GTCGGCGAGTTGGGCATTTGTTGCCAGTGTGGGATGTGCATCCAGGGGCGAGTGGTAGCC
TGCCATATTGATGCTGTCGCGTAACAGTGCAGCAATCCGTTCTTTTCCAAACAGTAAC
GGTCGGCAACTCGTTTTTCCAGAACATACCGTGATGTACCAAAAGCAAATCTGCCTTCTG
CTCCACAGCAAAATCAATCGCTGCCCTGCTTGCCGTTACCGACGTAACGATTTTCCCGAT
ATATTCCTCTCAACCTCAACCGTTAGGGGCGTAATCTTTAAACAACGCTGTCTG
CAATGTTTCATTACCAAGTCAGAAAATCCCTGCACAATACCATCTTTTTTCCTAATCG
CTTTAAACAAGCGGCAATCTAATCGCAAAATGTCCGGAATTCACATTTTTTCCGATTGCG
ACCCGCATATGAATTATTTAATATGCGCCGTTCAATATGCCGCTGAAGCCCCATGGA

Appendix A

-485-

TTCCATTATCGAATTGCGCCACCTCAAACCCCTGCTGGCACTTGAAGAAACCGGCAGCGT
CTCCCTTGCCGCGCAAACGGGTTTTCTTACCCAATCCGCCCTTTCCACCAGATCCGTAT
GCTCGAAAACCACTACGGCAGCCGCTGTTTGAACGCAAAATCCACGCCCTTGCGCTTTAC
CCCGTGGCGGAAAGGCTGCTGCGCCTCGCCACGAACCTATACCTCAAGTTGCTGTTGC
AGAATGGGATTTGGCGGAATCACGAAGGAGAGCGGGAGAGCTGCGGATTGCCGTCGA
ATGCCATACCTGTTTGCAGTGGCTGATGCCGCCATGGGCGAATTCGCCCGCATGTGCC
CCAAGTCGAATTGGATATCGTATCGGGATTCCAAGCGGATCCCGTCGGACTGCTGCTGCA
ACACCGTGCCGACCTTGCCATTGTTTCCGAAGCGGAAAAACAAACGGTATTTCTTTCCA
ACCGCTGTTTGCTACGAAATGGTCGGCATTTGCGCACCAGACCATCCGCTTGCCGCCAA
AAACGTTTGGACGGCGGAAGACTTTATCGGGGAAACCCCTGATTACTTATCCCGTTCCCGA
CGAGATGCTGGATTTTGCCCAAAAAATCCTGATTCCGAAAAACATCAACCCGCCGCGCG
ACACAGCGAGCTGACCATCGCCATTATCCAACCTGGTTGCCAGCAGACGTGGCATTGCCGC
CCTTCCCTATTGAGCAGTCATGCCCTACCTTGAAAAAGGCTATGTCGTCCACCGCCAAAT
TACTGCCGACGACTGCAAGCAAACTGTATGCCGCCATCCGTACCGAAGATACGGACAA
GAGCTATCTGAACAATTTTGGCCAAATCATACGCGAACCGGGTTTTGCAGATTGCCCGG
ACTGAGCGAAGTGAACCCGCTGACCCCTTATTCAACCATACCCGGCAGTTTTCTTATT
TTTTCATGTATAGTGGATTAAACAAAACAGTACGGCGTTGCCTCGCCTTGCCATACTAT
TTGTACTGTCTGCGGCTTTCGCCAAAAATCCTGATTCCGAAAAACATCAACCCGCCGCGCG
TGATTTTTGCCCCAATCTGTAATCTTTAGATTGCCAATGGGAAACCGTCTACTACAAATAA
AAAACCCCTGCGATAAGCAGGGTTTTTGAATTTCCAACATTAACGTTTGGAGAATTGTTT
TGCACGGCGTGCTTTCGCCGAGACCCGGTTTTTACGTTTCGACTTCGCGGGCATCGCGGT
AACAAAACAGCTTGAGACAAGCGGGTTTTCAACGCGGCATCGAAGTCGATCAGGGCAGC
GGTAATGCCGTGGCGGATTGCGCCGAGTGGCCGGTTTTGCCGCCGCCAACAAACATTGAC
TTTGATGTCGAAGATTCCGGCTTTTCACTCAGAACCAAGGTTGGCGAACCAACATTG
GCTGGTTTCCCGTGGCGAAGAAATTCGTCAACGGGACGACCGTTTACGATGATTGACCTGT
ACCTTTAATCAGGAATACACGAGCCACTGAACCTTTGCGCGCGGCTGTGCCGTAGTAGTA
TTTACCGTTTATGTCGCGTCTTATTTCACTTCCAAAACCTTTGGGTTGTTGCGCAGCATG
GGCGTGTTCGACCCCGCATACACTTTTCACTTTTAAATCATGGCGTAACCCAGAGGACC
TTTGGGCAGCATACCTTTTACAGCTTGTTCCAAAGCGCGGCCCGGGAATTGCTCTTGCA
TTCGCGGAAGGTGCGTTCGTAGATACCGCTGGGAAACCGGAATGGCGGAAGTATTTTT
ATCTTCGAATTTGGCACCCTGTCGACAGGTTTACACGAGTTTGTCCGCTGATAACAATGATGA
GCCGGTATCGACGTGGGGGTGTATTAGGTTTGTGTTGCCACGACGAGCGCTGGCGAC
TTCGGCCGCAACGCGACCAAGACTTTGTCTTGGGCATCGATGACGAACCATTCGCGCTT
CACCTCGTGGGGTTTCGCTGAAAAGGTTTTTCATAGTGGAAATCCAGATAGATATAGAAAG
TTGTAATTTTAAAGACAGGATTTCGATTTTGTCAATCGCATTACCGGTTACGGAAGGAT
TTTCCGGATTTTCGCGAGCTGCATCTGCTTTTTCGGGCGGGCGGCGGCCAATGTGAAA
AACCGCATCGTTGCGATGCGGTTTTGAATGGGAATCCCCGCGAGAGCCGTTTCGGCCGAA
TCCGTTTGAACCTTGCTGACAAGCGGCTGCTCGGGTAGTTTCGGGTGCGTCCGCAAAA
GGACGCTCGCGCCCACTACTGCTCCCGCAACCTTAAGCGAATTTATGGTTCAAAGGAA
TATATGCCCTTCGCGGACACCGCAGGGAAAAAGGGTTTATCCTGCGCCAAAGCGGGATAGT
GCTTTTTGGCAGGCGTTGTCCATATCGGCTATTTTACGCGCAAAATCGCGATTGCCAAA
TCGCGCGCGTTTCAGGGAGGTTTTCAACAGGTCTGGACGAGCTTGAGCGCGGCCATAATG
ACGATTTTTTCGCTGTCCGCGACGCGTCCGCTTCGCGGATGGCTTCGGCTTTGCCGTTG
AGCATTCGACTGCCTGCAACAGTGTGTCTTTTCTCTGCCGCGGTGTTGACGGTCAGC
CGGGCTGTCATGACTTCGATGTGGACTTGTTCGATGTTTCACTTTAATCCTTATTGCTG
CGTTTCTGCCATTGGGGGAGGCGCGCTGCCAGTGCCTGATTTTTTCCCTGCTCTGTTT
GAGCAGGCTGCGGTATCGTGATTTTCTCTGTCAGGCTGTCAATTTGTTTTGACAGGTC
TTCTTTGAGTTTTCGCACTTGGACGAGCAGGGCTTCGCTGAGTTGCTCGACGGCGGTTT
GTGTTTCGAGTTTTTGGCGCTCGTGGCGCCGTTTGTGTTTCGGCGACGGTTTCTTTGAGGCG
GCGGTTTTTCGCTGACGAGGTTTTGAATTTTGTACCAACGTATAAACGCTGCTTTTCGAG
TTTTTCGATATTTGTTTTCATAACCTTACCTGTCCGTATGCCGTCTGAAGGCTTCAGACG
GCATCTGCTGTTGTTTATCAAAACGCGCGCTGCGTTCCATCAGTCTTTTCGACAACCTG
TTGGCGGGTCATTTCTTTGCGGATGAGTTGCAGCAGAGTTTGGGTAATCGGCATGTGAT
TTGGTACTTACAGGCAGTATGAAGACTTCTTCTATCGTGTGACCCCTTCGGAACCGTG
TCCGATTTTCGACCAACCTGATGAGTTCTTGCCTTCTGCCAAACCCAAAGCCGACGCG
CGGGTTGCGCGAAAGTGCGCCGTTGACAGGTGAGGATGAGGTGCGCGATGCCGTGCCAGCCC
CATCATGGTTTTGGGCTGTGCGCCCATTCGCGGAGCAAGCGGGGTGATTTAGCTAATCC
GCGCGTAACCAAGTGCGCCACGGGCGTTAAGCCCCGTAAGGCTGCGGCAATCCGGT
GGCAATCGCCATAACATTTTACCGCGCCGCCAACCGCCACGCCGATAACATCGGTACT
GCCGTAAAGCCTCATGACGGTCTGTTGAGCTGCGGTACGAGTTCTTCAATCCACTCTTG
GTTTTCGGAGGCAAGGACGACGGCGCAGGGCAGTTGTTTGGCGAGTTTCTGTGCAAACT
CGGGCCGGAAGTACGCCGATTTTCTTATGTGCGGCAATACTTCTTTCAAGACTTGAAA
GGTCAGCAGCCCGGTATCTGCTCGAATCCTTTGACGGCGCGGAGGACGGGAGGTGTCC
CGCGCCCTACTGTTGAGCAGCTGCGCTGCTTCTCAATCCGGCAACGGAGGTTACGAT
AAGGACAAGTCCGCTGCTTTGAGCGCTGTCGCAAAATCCGACACACTTCAAGGTTT
GGGAAAGGAAAAAGCCGGGACGTCGCGCTTTGTTTTACGCGCTTCTGCAATTTGACGGAC
TTGGTCTGCGTTGCGCGTCCACAGGGATACGCGGTGCGGTGTTGGGAAAAATGCAGGGC
GAGCGCGGTACCCACGAACCTGCGCCGATAACGGTAATTTTATTGGTCTGCTTTCAAC
ATATCACTGCGCTGCAATTTTAAACAATCGGTGTTTCTCTGCAAGTGCGGTCAGGGAAT
GCCGTCTGAAAGGCGTTACAGCGCATTTTGGCCCGATGCGGCATATCAGCTGTATTG
CGCAACCTTGCCGCCACGCGTTGATGGTCAGGTGACCATCAGAAAGGCGTGGCGATTG
TCGGGTTCTTTACGACGGCTTTGAGCATGGCGACTTGCAACCGTTGAGCGGCTTCAGG
TAGGGAATCCTCAAAGCGAGCGAACGGGCGAGGCTGCGGTTGTGCGCAAAAGCTCTTCG
GTTTGCAGTAGGTGAGCAGTGCTTTCGCGCTGCGCGGATTCTTCTTAAATCATCCCG
AAGATGATTTTTGCCTTATCGGGCGATTGCTCAAGCCGCATAGTTTTCCGCGAGGGT

Appendix A

-486-

ATGTCGGTTTTTCGCCATCACTTGTTCATATTGGAGAGCATGGCTTGAAGAACGGGTTG
CTTTGGGCGTGTTCGCGCAGGGCGGCGAGCGTTTCGGGTTGTCTTCGCACAAGGTTTCC
ACCGCGTGCAGAAACCGTACCAAGCCGGCAGCATGAGGCGGTTCTGCATCCAGGAAAAAT
ACCCACGGAATCGCGCGCAAGTCTGAATCCGCGCCAAGGTTTTGCGGCTGGCGGGACGG
CTGCCTAGGTTGAGGGTGGCGATTTCCTGAATCGGGCTGGTTTGCAGAAAGTAGTCGATG
AAGTCGGGATGGTAATCAGTTCGCGGTAGTATTGAACGATACGTCGACAAATGCCTGC
ATCAGTTTGGCATCAGGGTCTTTTTATCCGGCAGGATGCTGGCTTCCAAAGTCGCGGCA
ACCAAGGTTTTCCAAAGTTGCGTTGGGCATTGCCGGGGTCGGCGTATTGGCGGTAATGACT
TCGCCTTGTTCGGTGATGCGGATTGTCCCGCCACGCTGCCCGCCGTTGGGCGAGAATG
GCTTGGTAAGAAGGGCCGCGCCGCGACCTACGCTGCCCGCGCTCCGTGGAACAGGCGC
ATACGGACATCGTATTTTTTGAAGAGTTCCGACCAAGCCCAATTCGCGCTGATAGAGGCAC
CATGAGCTGGTAACGTAGCCGCGCTCCTTGTGGAGTCGGAATAGCCGAGCATGATTCT
TGGATGTTTCCACGGCTTTCGAGCAGTGCATCGTACCAGTCGAGGCGGAACATGGTTTCC
ATGACCGGACAGGCGTTTTTCCAACGCTTCAATGGTTTCAAACAGCGGCACGATATTGATG
CGGCTGTGCGGTTTTCGCTTTTCCACCGCCAACAGGCGGTTTCTTTACGAGCAATGCC
AAGGCGAGCAGGTGCTGGGTTGTTCGAGTTGGAATAATGCTTTGTGTTACGGCATCT
TCGCCAAATTCGCTTTGATTTTGCAGCTTCTGTTGAAAATTGCCAGTTCTGTGGCGGGTA
TGGTCGCTGTATGTGATAAACCGGGCTGTACAGAGGACGTTGATGGCTCAATTTCGCGCAAC
AGGGCGGTTTTGTTTTGCTCTTCGTTTCAGGCGGTTGTAGTCTTCCAAGCCTGCGTGTGG
AAAAGCTCGGCAACCATCGGCGTGTTCGCTGCGTGTGGCGCAAGTCGAGCGGCATC
ATGTGAAAGCCGAACGCGATACGGAACGATGAGGTCTGCCAAACGGCCTTCGGCAAGC
AGACGGCTGCCGTTGTGCGATAAGGGAACGTTGCAATTTTTTCAAATCATCCAGAACTCT
TGTGCCGAAGCATAAGGCTCGAGAAAGCCGAATTTGCAGCCATACCCAAACCGAGCGC
CGCGCTTTCGCATAGCGCGGCCATAATGTAGGCGATGGCGCGGGGTTAGGTTCTTCG
GCGCGGGCGATTCTTCTGTCGGGCGATTGTGCGGACACGCCGTTACATCGCGCTGACT
TTGACGCGGCGGATGGAGAGCGGAGTTTCGCGGTAGAGTTGTTCGAGTTTCGCGCGATAG
AAGCGGAACACGGCATCGGCGTGGCGGGGAAGGCAAGCGCAGGTTTCGGCAGAAACA
AACGGATTGCGGTCGCGCTCCGACCGCGATCCAGCCGCGGATTGTGAGGATTCGGCAAGC
CGGACGCGGGATAGGCGCTCTGAAAGTCGTGTTCCATCTTGCAGTAGAGCTTGGGCAGG
GCTTCGAAAAAGCTCATCGGGAAGATGGACACGCCGTTGTGATTTTCGTCGTTGACGCTG
AGTTTGTGGCGGCGGCTTTCGCTGGTCTGCCACAAGCCAGCAGGATAGTGTGATTTTCG
CGGCGCAGCCGTGCCAGCGCTCGGCATTGGTGCAGCGTTTCGCGTTGCGGCAACAGTGCG
CGGATGCGGCGGTTGAAGCTTAAGACGGTTTGGCGTTGCACTTCGCTCGGTCGCGCGGTC
AAAACGGCGGTAAACGACGATTTGTCCAACTGCCGCTGCACCGATTTCGCGTCCGCTTTC
CCCGCTTTGAGCCTGCGGACGCTTTCGCTCAGGCTGCCTTCGCGCGCGCGCGCTCCGCT
TCTTCGTGGATTGTGCGCGCGGCTTCGTGGTGCAGCTCTTCGCGCATGTTCAAATCTGG
CGGAACAGGCGCAGGCCAAGGTTAAATCGTGGGTTTGTGTTTCGTTCCAAATGCGGCAAT
ACTTTTTTCAATCAATGCCGCTGTCTGTCGGAAGTGGACAGAGTTGACTGTTTCGACA
ACCAACGGCGAGGCTTCTTCGTGCAGGAGTTGAACAGGGATTGTTTCAGAAATTCGCGC
TCCGCGCCCAAAGCCGCTCCTTTGGATTGTTTCAAGATATGCAAGTTGCATGATTTTCTC
TCTCGTCTGCCGTAAATATTGTAATGTACCCAAATGCCGCATCCGTGCCAAACCGTTC
ACACTTTAACCGCCCGTGTCCCGAAATGCCGCTCTGAAGTTGAACGCGCGCGGACGCGAGC
GTTACAATCGCCGCAACTGTTTTTTTCCGAACATCATATGACCAGCAGCCGAACACGAC
AACGACGATGCATTCTGCTGCGGTACAGCCGCCACATCTCTTGGACGAAATCGGCATC
GAAGGCGAGCAGAGAACTTTCCGCGCGCATATTTGGTCTGCGGCTGCGGCGGTTTGGGT
GCCGCGCACTGCCCTACCTTGCCTTCGCGGTGTCGGCACGCTGACCATAGCCGATTCC
GACACGCTCGAAGTGCACAACTGCAACGCCAAGTCGCAATTGACGAGGGCGATGTCGGC
AAACTCAAACCAAGCCCTTGGCAGGCGGCTGAAACGCATCAACCATAACCGTCAACGTC
CGCGCGGTCAACGAAAACTCGACGGCTGCCGCTGACCGGTTTGGTTCAAGCCGCGGAC
ATCGTTTTAGACTGTTGCGACAACACGCGCACGCGCAAGCCGTAACCGTGCCTGCGTG
CAAACGAAAAACCGCTGGTTTTCAGGGCGGCGGTACGCTTTGAAGGGCACTTGCCTGT
TACCGTCCCGACTTCCGCTGCGCGCTGTTACGCTGCTGTTTACGCGCGGATCGGCT
TCAGACGGCATCTGTTCTCTCTTCGCGGTGTTCTCGCCGCTGGTCGGCATCATCGGCAGT
ACCCAGCGGCGGAGGCTCTGAAATCCTGCTGGATGCGGGCGAACCCTGCGACGGCAGG
CTGGCGGTTTACCGTGCCTTGGAAAGGGGCTGGCAATATTTCGACCTGCCGCGCAACCT
GAATGCCCGGTTTTCGCGCACAGCGCGATAAAACCTGCCGCGGTTTCAGACGGCATCCAAA
CGGATGCGGCGGAACGGTTTTTAAATTTTAAATTTTACATTTCTTTGCAAAAAA
AAAAAAATAAACTTACCTATAATTGCAATTGTTTTAGCAATGCTGTTTCGAGACTC
ATTGAGTAAACGTTTTTCCCGTAATGTGTTTGGCCGCTGTCCCTTTGGGTTTCGGACG
GCTTTTTTTTGGCTGTGTTGAATACCGGTTGGTTTTATCTGTTTGCAGCGGGGAAGC
CGCTTATTTCCGTTTCGGGCGGAAACGGTTCCATCGGATAAAAGGCATTTTGTCCGACTG
ATTAAAGTTATAGTGGATTAAACAAAACAGTACAGCGTTGGCTCGCCTTAGCTCAAAGA
GAACGATTCTCTAAGGTGCTGAAGCACCAGTGAATCGGTTCCGTACTATTTGTAAGTCT
TGCGGCTTCGTCGCTTGTCTGATTTTTGTTAATCCACTATATCTTAGGTTTGCATC
GGCGGAATATTCAAACACAGCCTTTTTTAAGGAAATCCGGATACGCGCGGCATCAATAA
TGCGGCGGAATCTGTCGCGCAGGGAATACGGCTCTTGCAGCTCGGATTCTGTCTCTGC
ATTTTTTTGATACAGCAGCTCAACTGAGCCTGCTGCAATCCAGCCTCTGCCGCAATTC
GCCACCATCGCGTTTCAGGCGGCGGATTACGTCCTCTGAAGCGCGGATTGGATTTCAGT
TCGCAATACGGGCTTCCCACTTTGAACCGCGTCCATTTACAGCACCATCGCGGCAATC
CAGCCGGAATCAGCAGCGGGATGTTGTAGTGGATGAAGTCGGGATAACGGAATCGCGG
ATGTGGTCGTGCTGCCGTCGGCGTTTCAGCCCATCGTCGGGCGGAGCGTGAATCGGAC
GAGGCGAACCAGCATCGCCCAACGCCCGCGGTCGCCACAATGGCGACGGTGGCAAGC
GGCGAAAAACCAACCGACACACAAAGGCACATAAATCGCGGCAATAATCGGCAAGTG
GAAAAGGACGAACCGATGCCCATCGTTACCAAAAGCCCCACCAGCATCGCAATGCC
GCCATACCTTGTCTGTGCGCAATATCGCCATACTGCTTTCCACCAGCGGCTGAATATGC

Appendix A

-487-

CCGGTCGCATTTCATCAGCGCGGCAAAACCCCTGCGCGGCAATCATAATGAAGCCGACCATC
GCCATCATCTTGTATACCTTCGCGCGAATACGTCGTTTGCCTTGTGCGGGTTAATGACCCCC
AACATCATAAATACGGCGAAACCGAGCATCGCGCCCAACACCAGCGAGTCTTCATACATC
AACTGGATGGCAAAGCATACGGCAATGGCGACGGCGGCGGCGAGGCTGCGGTAGGCGGAC
GGCTGCGGACGGTTTGGCCGATCGGCGTTGCCCGCGTATCGGCATTGTTGCTTTGGTAC
AGGCGCGGTTTGGCGTAATGGACAAACGCCAGCAGGAGTCCGGCCAGCATTCCCAACGCG
GGAATCGCATTTGCCGCCATCACGTTAATGTTTTTACATCAAGCTGCGGCGCGGCGGAA
TGGATGTTGCCCAACAGGATTTTCGTTCAAAAAATCGCGCCGAAGCCGTAAGGCAGGAAC
ATATAAGTCGTAACAGCCCGAAAGTGATGACGCACGCAATCAGGCGGCGGTGCGATTTTC
AGGCGGTTGAACACCAAAAGCAGCGGCGGAACAATCATCGGGATAAAGGCAATGTGGATG
GGGATGATGTTCTGACTCATCATGCCCATCACAGGATGATGGAAGCAGCAGCCATTTC
ACCGCGCCCTCGCCGAACGCACGCTGTGCGGCATACCGCCCGGTTTCAGCTTGGCGAGC
ACCGCGCGGCAAGCTGTGCGGCGAGCGCGGAATGGGTAATCGCCATTGCAACCGCGCG
AGCATCGCATAAGAAAGCGCAATCTTCGACCGCCTTCCAAACCTTTGTTGAACACGGGG
ATAATCCCCGCCTGACTGACCTGTCCCGCGCATCGGCAATGTTTTGCAGCGGCATACCC
GCCACCGCGCGCGGACAAACGCGCGGACCGTCAAGCTCAATACCAAGTGCACGCGCGAC
AGCGACAGCACCAGCATAACGATTACGGCAACTACGACTGCATTTCATTGTTATCGCTCC
AAACCTATAAATGTTTACATATCGAAACACATCATAACCAATAACGGGAACCCCGCAA
TTTTGCAACAATATTTCAAATGCTTCATATCTCCCGAGCGTAACCTGTCCAAACC
CGCCAAATCCGGCAGGGTTTCCACTCCTGAAAAACCATTTCCGCCAACACGCGCGCAC
CGCCGCGCCTGATCGAAACCGTGTTCAGCAATAAAAAACCGCCTTCCGCCAAACGGTC
GGGCGCGCCTTGGCGCAAGGTGCGGATGCAGCTTAGGCGCTGTGAAAAGTCGGTCAGCGC
GATTTGCGGCTCAAACCGCAATCGCCTTGCAACAAATGTTTATCGCCGTTTTCGATATA
GGGCGGTTGGACACGATGATGTCCCATTTCCCTTCAGACGGCATATCGGTGTCAACCA
CGAACCGTGTGCAAAATTCGACCCGCGCGCCAAATCCGCCGCATTTTCCGCGCGGTTTC
AAGGGCGGGCGGCTGATGTGCGATGCGCGCACAAACGCATCGGGGCGTTTCGAGCGCGAC
GGTTACGGCAACCGCGCGCTGCCCGTCCCAAAATCCACACGCGCGCGTTTTCGGGCAG
GCGCGCAATACGCTTCGACCAATGTTTCGGTTTCGGGGCGCGGAATCAGCACGCTCGG
ATTGACTGTAAAGCGTCTGCCATAAAATTCGCGCACACCTAAAATATAGGCAACCGGCTC
GCCGTTAGACGCGGTTGCGCGAGCCTGTCCGCCGCTGTGCGGACTTCGTCGGCATTTTC
TTCCCGCGCGGCTCAACAACTGCACGCGGTATATTCCGAAACATATTGTAGCAGCAT
TCTTGCTTCATTTTAGGCAGTTTGGACAAGCCCAACCATTTATCAAACGTCATTTTAT
CCCGTCTGCCGCTGATGCGGCTTTCTTTCTTATCTTTTCGGCAACGTAACCGATGGT
GGCAACCGCAATGCGGCATACCACAATAAAATCCTGCACCGTAGCGCACAAATATCCGA
TGTATTCCTGCTTCATCGACGATACGCGTTTCACACTGAAAGCCACCAACGCCAAGCC
CAAAGTGCCGATGGACAGGCAGACCTTCTTCGCAACGCCAGCAAAACATGGCGCG
CAACCAACATAATTCGATAGACCGCACAAATACCTGATATCCAAAGAAGCAAAATATCGA
CCCCAAATCAAAACGTTCAAACCTCCATGCTTCATGATTGCCCAATAAAATGCAAC
ATTGGATAAAGACGCTATCCACAGGGCAACCGACACAGCAACATCACTATGGGAAAAT
TGGTTTCGATTCTGTTCTGATGGTTTTATCCTAATGTAAGGCGCGCTGAAAACCT
TTCAGACGGCATCGTGCGGATTCGCGCTCAGATTGCGCTGCCGCGGACGGTCAGTCCGG
CATCAATCCGCAAGTTCGTTTGCCTTCCCGCGCGGCGGACGCTCTGCCCTTCTTTGCCG
ACACGCGGACACGCTGTGAGCGCAGTATCGTTGCCATCATGGAACGTTTCAGCA
CTTCGGGGCGTTGCCGATGATGGTCGCGCCTTTGACGGGATATTGCAGCTGCGCGCTT
CCACCAACCAACGCTTCGGACGCACTGAACACGAACTTGCCTGTGTAATGTCCACTTGT
CGCGCCAAAGTTGACGGCGTAAATGCCCTTGTGATGGACGCGATGATTTCTTCGGCT
CATAGCTGCCGTTTTCATAAAGGTATTGGTCATGCGCGGATAGGGGCGGAAGCGTAAC
TTTCGCGGCGGCTTCCGCTGACTGCGTACCGCTCAGCGGGCATTTGGTTTCGTCCT
GCATATAGCCGACTAAATGCCGTCTTCAATCAATACGGTGCGGCGGGTTTCGTTGCCTT
CGTCGTCGATGTTGAGCGAACCGCGCGCGGCAATATCACCTGATCGACGACGGTAA
CGCCTTTGGCGGCGACGCGCTCGCCTATTCTGCCGAAAAGACGCTGGTTCCCTTGGCGT
TGAATCGCTTCCAAACCGTGTCCGACCGCTTCGTGACGCAACACGCCCGGCGAGCGGT
TGCCCAAAACGACGGTCATTTGCGCGGCGGCGCGGGCGGGATTGAGGTTGGTGAAGT
CCTGTTTACGGCGGATCGACAAACCGATGAACCAAGTTTTTCATCGAAATAAGCCAAGT
CGTAGCGTCCGCGCGCGCGCGCTGCCCTGTTGCGGCGGTTGCGCCTGTTTGGCGATAA
CGGTAACGTTACGGCGCACCATCGGGCGGATGTGCGCGCGCTGTTTGCCTCCAGACGGG
CGAGGTAACCATATCGTATTGCGAGGTCAAACCGGCCATCACTTGCACGATGCGCGGAT
CGGCGGCTTTGGCGATTGCTTCCACTTTGTTCAACAGCGCACTTTGGCGGCGGAATCGA
GGCCGGCAATGGGTCGAGCGCGGAACAAACCGGCTTGCGCGCGTTTCAGACGGCATTT
TGGCGGACACCTTGCCGCTGCGGCCCAATCGCGCGGACGCGCGGCGGCAACGGTTTA
TCGAATCGATGCACAGGCTGTGCGGTAGGCAAGGCGGTTTTGTCGCGCGAAACGGCGC
GCACGCCACGCGCTGATTGATTGGAAGCTGCCGATTGACGATGCCCTTCCAAAT
GCCAGCTTTCATAAGCGGTGCGCTGGCAGTAGATGTGCGGTAATCGACGTGGTGCAGCG
CGATGATGCACAGGCTTTTGGCGAGCAGTTGCGGGGAAAGCGGTTGGCTTCGAGCAGCC
GCGCTGTACGGCGGAATAGGTGCGATGCATAGTGTGCGGCATATAAAATCAGGGGCTT
GATTATACGGCATTTGTTATATAGTGGAATTAACAAAAACAGTACGGTGTTGCCTCGCT
TGCGGTACTATTTGACTGTCTGCGGCTTCGTGCGCTTGTCTGATTTTGTATATCCAC
TATAGAAATGCGCGCTGCCGCTGAAATGTAAGATTTTGGCAACGCCCTTGCTTTGT
GTACACTTAAAGCTCCTTTCGGAGTGCCCGCGCGGCGGCTGAGATTGCGAAAGCAGA
ATCCGTAGAACCTGTGCGGTAATGCCTGCGTAGGAACAAACCGTCAAATGCCTTATCA
GGCTTCCGTTCCCTTTTCGCACTTCCCCGCCCATTTTCATGTTTTTAAAGGACTTGAT
ATGTGCGGCAATGCCCTCTCTTCTCATCTTCTCCGCCATCGGGCTGATTGGTTTCGCG
GCGGCGGTATCGATTGCCGAAATCAGCACGGGTACGCTGCTTGGCGCTTGGGCTGGCAG
CGCGGTCTGGCGGCTCTACTTTTGGGTGATGCCGTGCGCGCGCGCTGTTTTTGGCGG
CGGTATATCGGCGCACTGACCGGACGCGAGTCGATGGAAGCGTGCGCTGTCTTCGGC

Appendix A

-488-

AAACCGCGTTTCAGTGCTGTTTTCCGTGGCGAATATGCTGCAACTGGCCGGCTGGACGGCG
GTGATGATTTACGCCGGCGCAACGGTCAGTCCGCTTTGGGCAAAAGTGTGTGGGACGGC
GAATCTTTTGTCTGGTGGGCATTGGCAACGGCGCGCTGATTGTGCTGTGGCTGGTTTTT
GGCGCACGCAAAACAGGCGGGCTGAAAACCGTTTCGATGCTGCTGATGCTGTGGCGGTT
CTGTGGCTGAGTGCCGAAGTCTTTTCCACGGCAGGCAGCACCGCCGCACAGGTTTCAGAC
GGCATGAGTTTCGGAACGGCAGTCGAGCTGTCCGCGCTGATGCCGCTTTCCGTGGCTGCCG
CTTGCCGCCGACTACACGGCCACGCGCGCCGCGCTTTGCGGCAACCTGACGGCAACG
CTCGCCTACACGCTGACCGGCTGCTGGATGTATGCCTTGGGTTTGGCAGCGGCGTTGTTC
ACCGGAGAAACCGACGTGGCAAAATCCTGCTGGGCGCAGGTTTGGGTGCGGCAGGCATT
TTGGCGGTGCTCCTCTCCACCGTTTACCACAACGTTTCTCGATGCCTATTCCGCGCGCGC
AGTGCGAACAACATTTCCGCGCGCTTTTGGGAAACACCGTCGCTGTCGGCGTTACCCTG
ATCGGCACGGTACTTGCCGTCATGCTGCCGTTACCGAATATGAAACTTCTGCTGCTT
ATCGGCTCGGTTATTGCGCGCATGGCGGCGGTTTGTATTGCCGACTTTTCTGCTTTGAAA
CGGCGTGAGGAGATTGAAGGCTTTGACTTTGCGGACTGGTTCTGTGGCTTGGCGGCTTC
ATCCTCTACCGCTTCTGCTCTCGTCCGCTGGGAAAGCAGCATCGGTCTGACCGCCCC
GTAATGTCTGCCGTTGCCATTGCCACCGTATCGGTACGCCCTTTCTTTAAAAAACCCAA
TCTTTACAAAGAACCCGTATGACCCGTATGCCATCCTCGCGCGCGGCTCTCGGGAA
GGCTGACCGCGTTGCGAGTTGCGAACAAGGTTATCAGATTGCACTTTTCGATAAAGGCT
GCCGCGGGGCGAACACGGCGCCGCTATGTTGCCGCCCATGCTCGCGCTGCGCGG
AAGCGGTGCAAGCCACGCCGAAGTGGTCAGGCTGGGCAGGCAGAGCATCCCGCTTTGGC
GCGGCATCCGATGCCGTCTGAACACGCACACGATGATGCAGGAAACGGCAGCCTGATTG
TGTGGCACGGGCAGGACAAGCCATTATCCAGCGAGTTCTGTCGCCATCTCAAACGCGCG
GCGTAGCGGATGACGAATCGTCCGTTGGCGCGCCGACGACATCGCCGAACGCGAACCGC
AACTCGCGGACGTTTTTCAGACGGCATCTACCTGCCGACCGAAGGCCAGTCGACGGC
GGCAATATTGTCTGCACTTGCCGACGCTTTGGACGAACTGAACGTCCTGTCATTGGG
AACACGAATGCGTCCCCGAAGGCTGCAAGCCCAATACGACTGGCTGATCGACTGCCGCG
GCTACGGCGCAAAACCGCGTGGAACCAATCCCCGAGCACACCAGCACCTGCGCGGCA
TACGCGCGGAAGTGGCGCGGTTTACACACCCGAATCAGCTCAACCGCCCGTGCCTC
TGCTCCATCCGCTTATCCGCTCTACATCGCCCCGAAAGAAAACCGCTCTTCGTATCG
GCGCGACCCAAATCGAAGCGAAGCCAAAGCCCCGCCAGCGTGCCTTCAGGGTTGGAAC
TCTTGTCCGCACTGATGATTAACCGCTTCAACCCGCTTCGGCGAAGCCGACATCTCGAAATCG
CCACCGGCTGCGCCCCACGCTCAACCCACCAACCCCGAAATCCGTTACAACCGCGCCC
GACGCTGATTGAATCAACGGCTTTTCCGCGACGGTTTCATGATCTCCCCCGCGGTAA
CCGCGCGCGCGCCAGATTGGCAGTGGCACTGTTTGACGGAAAAGACGCGCCCGAACGCG
ATAAGAAAGCGGTTTGGCGTATATCCGAAGACAAGATTAAAGCCCGCGGAAAGGACAC
TTATGACCTTCCCGCCCTAAATCCCCGCTCAATCTACGCCGTGCTCCCCACCGCG
ATTGGGTGGGGCGCATGTCAAAGCAGGTGCCGACACGGTGCAACTGCGCTGCAAGGCC
TGCACGGCGATGATTGAACCGCGAAATCGCCCGTGCGCCGAGCCTGTCAAGGCGAGCC
GTACGCAGCTTTTCATCAACGACCACTGGCGCGAAGCAATCGAAGCGGGCGGTACGGCG
TGCATCTCGGACAGAAGACATGGACACCGCCGACCTTGCCGCCATCGCCGCGCGCGGTT
TGCGCTTGGGTTTGAAGTACGCACTCCGTTGCCGAACCTGACCGCGCCCTGTCCGTACAC
CTAGCTACATCGCGACGCGCGCGATTTCGCCGACGACGACCAAAATGCCCCACCGCC
CGCAAGGCTTGGACAACTGCGCGAATACGTCAAACAAGCAGGCGGCACGCCGCTCGTCG
CCATCGCGGTATCGACTTGAACAACGCCGAGCGCTACTCGCCACCGCGCTTCTCTAC
TCGCCGCGTCCGCGCGCTTACCGAAGCGGCAATCCCGAAGCGGTGTTAAAGCGTTTC
AGGCTTTGTGGGATGGATAAAACCGAAAGAAATTCATTTGCCGTGTAGGCAAACT
TAGCCCGTTATCGCAAACTACTTAACTTAAATGTGGCATATCATCAAATCCCGTATT
CCCGCTAAGCGGAATCCGCTTAAACTTGAGAAACCATCATTTGAAAAACAGTTTCC
GAATTTCAAAATGGATTCCCGCCGTCGCGGAATGACGGCAACCGGTGAGTTGCGTATC
AAAAAATAAGTAATTCCGCTAGATATAGTGGATTAAACAAAATCAGGACAAGGCGACGA
AGCCGCAGACAGTACAATAGTACGGAACCGATTCACTTGGTGCTTCAGCACCTTAGAGA
ATCGTTCTCTTTGAGCTAAGCGGAGGCAACACCGTACTGGTTTTTGTAACTCACTATAA
ATACAGAAACATCGAGAAACCATGAACATCATCTTAAACGGCGGACCGCGCAACTTAC
GGCAGACCGCTTGCCGACCTCATGCCCAACCGCGCCGCAAAAGCCCTTTGCCGTGGCG
GTCAACACCGTTTTTCGTCGCCCAAGGCGCGTATGCGGAAACGGTTTTAAACGAAACGAC
AAAAATCGATATCGTGGCGCGGTGGTGGCGGCTAGGCGGTTTTGCTTTTCAGACGACC
CCTGTCCCAAAACACGTTATGTTGGATTAACTTTAAATCAGGACAAGGCGACGAAGCC
GCAGACAGTACGGATAGTACGGAACCGATTCACTTAGTGCTTCAGCACCTTAGAGAACTG
TTTTCTTTGAGCTAAGGCGAGGCAACGCGTACTGGTTTTTGTAACTCACTATAAAG
GAACCCATTATGCTCACCTTATACGGCGAACTTTCCCTCGCGGCTGCTGCTCGGCACG
GCTGCTTACCGGACCCCGAAATCCTCAAACAATCCATCAAACCGCCAGCCTGCGATG
ATTACCGTCTCGCTGCGCGCGCGGGAAGCGCGGAGGCGCAGCGTCAGGGTTTTTGG
TCGCTGCTTCAAGAAACCGCGCTTCCGCTCTGCCGAACACGGCAGGCTGCCAAAGCGTG
CAGGAAGCGGTAAACGACGGCGCAATGGCGCGCAAGTGTGTGAAACCGATTGGATAAAA
TTGGAATCATCGAGATGACGACCTTGACGCGGATGTGTTCCAGCTTGTCTGAAGCG
GCGGAAATCCTGATTAAAGACGGCTTCAAAGTGTGCTTATTGCACCGAAGACCTGATT
GCTTGCCTGCGCGCTGCTGACGCGGCTGTGAGGCTTGTGCTGGGCGGCCCCGATC
GGCAGGGTTTGGGCGCGGTTACGCTTACGCTTGAACGCTTGCAGCAACGCTGCCCC
GACACGCGCTGATTGTTACGCGCGGCTTGGGTTTTGCCCTCACAGCGGCAAGATGATG
GAATGGGCTTTGACGGCTGCTTTTGAATACTGCCGTTTCCCGCAGCGGCTATCCGTC
AATATGGCAGCGCTTCCGACTCGCGTGAATCCGACGGCTGGCATTTGAAGCCGGA
CCGGTCAAGACGCGACGCAAGCGCAAGCGCAGCACGCCGACAGTCGACAAACGTTTTGG
CATTCGGCGGAATATTGAAAAAGGCAGCAAAATGCCGTCTGAAGGCTTCAGACGGCATC
GCCGTCCAAACGCGCGCGGCTGAAACGGACAAACCGCATTTCCCGGCATCACGGCTT
TGTCGAAAAAATGAAAAACCGCGCGGAAACCTTGCCGCGCTCCGATGCCGAAC

Appendix A

-489-

AACGAAACACTCGGCTCCACGGTGTGCAGGCTGCCGCGCAAGCCCTAAATACGGCAATA
GAAGAAGCGTTTTGTTGTTGTTTGAATACACTTAAAAATACCTAAAGCCGTCGGTAAGCC
TTCATCCGCAACGGTTTTACCCTTTTCGCATCCCCGAATCCACGGCTCAAACACCCCGGAA
TGACAACCCCTGTCCGCGCCAAATCGGACGGATGTTCAAACACGGGCAACCTTATTTCCGT
CAGGCACGAAGCCCTCAGCTATGCCTGCCGACCCGATTGTCCGACACAATGAAAGTTT
GCCGACCCGAATCACAACATCGGCGGACAGGTTAATTTGTTTATTTTCATCGTATTAC
AAAAATCTGCATTATTTTTAAATTTTTATTGATAATTATTATTATTAGCGTATAATCA
AAACCACTCGGAAGCCGTCCGTTCCGAACCATTAACACCATATTTCCCCATCATCACTT
TCACACTTGGAGTCGGCATATACGAGACATACATTCCCTTTTTATATATCAGATACTCAA
AACCGAAACGCCAAACCACTTTCGCGGTGGGTTTGGCGTTTATCGTCCGGCTTTCGCGC
CTATTTGCAAGACTTGAGGTTTCACTTTGCCGTATAGGGACGTGATTTACGAATTTTCGTC
CGCATCGGCGGCATTACGCCGTTAAACAAAACCGTCATACGCGACACGCTCAAAGAATC
GTCCTGCCTGTCCGCTTCGGCAAAGTGTTCGACAATATGCGCCCCGCGCAATCCGGCGCC
GGCAAGCCGTTTTGTCAGGCTTGGGCGTTTTCCCGGCTGTTCGCGACACCCAAACTCAA
TGCGCCGTCAAACGGTATGGGTTGAAACCTTTGGCAGACAGCTCCGCCGCTGATTTTC
GGCATCGGCGGAACGGGACGAGCAGCGGTAGGTTTTGTCGGCAGGTTTGGCTTGGGC
GGTGCGTTTTTCGACGCTCCTGCTGGCAACGTGCGACCATTTGCCCAAAGTCCTTTGAT
GCGGTGGTAGTCATCTTTCGTCCATCGTGAGGCTTGCCTGCGCGGCGCATAAAGCATCCGC
CGCGCGGTTTTTCGCGTTCCGCTGCGCCTTTTCGCGCGCGAGTTTTTCGCGCGCGGCTTT
TTCTTCACGCTGTTTTTCTCTTTCAGTTTTTCTGTTCCGCTTCTTTTTCAAGCGCAA
CTGCTCCGCTGTTCTTTCGCTCAGAATGTCGCCCTGTTTTGAGCAGTGCGCCGTGATCCGA
TTCAGATGCCGCTGAACGACAGGACCGGATGCTGGAATATTCCGAACAACCGGCATAGT
TGGGGCAACTGGTTGAACCTGCAATTTGTTGCGGCATTCTGTGCTCCGGTATTCTGCC
GGCCTGTTTCAGTGTAGTTTGTAACTACCGTACCGCCGAATACGGCAATATTAATCGC
AACCAAAGGATAAATAGCCATTTTCATCTCTGATTCTTAAATATGTTTCATATTCCTTG
CCTTCGGCGGCATCATGTTCAACAACCCGTAATGACGAGGTTGTCGCCACGCGCAGC
GTATTTTCGCCCAAAATGACGGCGGACGGGCTTCGGCACTTTTGCGCGCGCGCGCGCG
GTAATGATGACATCTGCACAGGCTTGCCTGCTTCCCGCGCCCGGTTTTTTCTTCAAACGCCGTGCATC
ATCATAACCGAGCCGCAACCGCATCCATCATGCCGCTGGCGACGCGATTGCCCGTTGTG
GTCGGGAAAGGATAACGCTTACCGCGCTGCCGTTGAGGTTGGCGGTTTCGGACGGCGAGC
GATTCCTTTCATCAGGTGGGAAACCGGCGATGATGGTTCCCGCGAGATAATGTCGGTCATCG
GTGAGCGCGTCAACCGTTACCGCGCTGCCCAACTGACGACGACGAGGCGTTGCGGCTG
AAGCGCGCGCTGCCCAAGCGGTTGAACGAGCGGTGGAACCGTGTCTTCGGGGTGGCGG
TAGTGGTTGCGTATGCCCAAAGCTGTGCGGAAGACGGCAGCCACTCGATTTTTCGGGCG
AGCTGTTCTGCACTTTGCGCTTGTGCTTTTGAATTTCTCGCACACAGCGCAACCGACATGCGG
ACATTTCCATCCGCTTTTTCGCCCACTCCCGGCCCAAGGCGACAATCGCGGTACGGC
GCGCTACCGACGGTTGCGAACGTGCCGTTTTCAACCCACGCCCACTTGAGCCGGCTGTTG
CCGCCGTCAAACGACGAGAAACGTTCCGAATCCCGCGCTTCGGCACGGAACCGCGCTG
TCGTGCGACCGCAGGCTGATTTGCGCGCTGACGACCGCTCTGTTGCCCTCTGCCGTTTC
AAGTGCAAAACGCCCTGTCCGTCACGCCTTTAAACCGTGCCTTCGAACACGGTTTCGCGG
TAAGGCGCAAAATCCGCTCCCGCGCATATTGCAACAACACCGCGTCCAGTTCCACCAACAGC
GTTTCCAGCAGCAGCGCGGCATCGGCATTGCCCGCGCGCATGCGCTCTGAACAGCGAT
TGCACGGAAGCGGCATTTCTACTTCTTGGGACAGGACAAAATTGATGCCGATACCGACC
ACGGCAACCGTTTTTCGCCGCCCTCTGACCGTTTCAATCAGAATGCCGCCCAATTTGTCG
CGTCCGACAACCAAATCATTTGGGCCACTTAATCTGCACATCCAAACCTAAACGCGACAAG
GCGCGCGCACACGCCACTGCGCGCAACAGCGGACAGCGAACCCAACTCATACTGCGGCCG
TCAAACACCCAGCCAAACTGAACATCAGACACTCGCCCAACCGGTGCGACCACTTCGCG
CCCTGCCGCCCTGCCCTTACTTTGACGTTGGGTACGCGATATGGTTTTGTGCGCCTTG
TCCGGGCAATCCGCGCAATTCAGTATCTCGTCTGCTGGACGCGCACTCGTGCTTC
AATGCCGTCTGAAAACCGACCTTTCCCCAGCTCGCGCAACCTTCGGCATCGAAAAC
GCCAATGGGCGCACAGCGGCCAATAGCCGTCGTGTTGGCGCAACAGCCCGGTATGTCG
GCCGCGATCTGCTGCCAAAACCGTTGAGCTGCTGCGGCTTCATATCCGCCATACGCGCC
AGTTGCGAGACGTGTTGCGGCAACCGTCGGCAAGCTCCGCCAACACCGCGCAGTGGCAA
AGCTTCAAACCGTCATTTTCCGCCCTCTGCCGACGGATTTTTGCCAAAGTCTTCGTTG
TCGAAGTCTGGTGCAGAAACGGAATTGAAAACACCTGACCGCGCGCGCAACGTTTCTG
CCGCACCGACAATCTTATCCGACGCCAATCGCGGCCCTTGACCAAAATCTCAGGTTTGA
CCGCTCAATCAACGCCGCCGCGTATCCCGTCAAACCACTTACCAATCCACACTTT
CCAAAGCGCGGCAACGGCGCACGGTTTCTCAAAGGATTAACGGGCGGTACCGCCCT
TGCCAGACGCCGACCGAAGCATCGGTATTAACGCCAGCACCAACGCGTCCCCCATCG
AACCGCCTGCGCCAGATAAGTAACGTGCCCCCTGTGGAGGATGTCGAACAGCCGTTGG
TAAACACGAGCGCGCGGCAACCAACGCCAAACGCGCGGCAACGCCCTCGGGCGGACAGA
TTTTCGATTCAAATCAGGGACAGACCAAGCGTCAACCATCAAAGCCTCCGACAAAACC
ATAAAAGACAGAAAACCCACATGATACAGAAGCATATGCGAAAGGCAAGCCGGCGGCG
CGGACAGTACGCGCAACCGGGAAAGACCCGTACCGAAAAGTACGGGCTTATCTGGGG
TGGCTGATGGGGCTCGAACCACGACAACCGGAATCACAATCCGGGCTCTACCAACTGA
GCTACAGCCACCATAAAACGGTTTTCAATCAAATTTCTGGCACGCCGACAGGAATCGA
ACCTGTAACCCCGACTTAGAAGTGGTGCTCTATCCGGTTGAGCTACGGGCGCTCATG
CCGATTCGTGCTGATTGATTGGTTCGGGCGGTGGGATTGAACTCAGACCTCTGCTCC
CAAAGCAGATGCGCTAACCGGGCTGCGCTACGCCCGACTGAAGAAGCGAACTATACAA
CTCAGGGAAAGATGCGCTCAACATTTATTTTCAAGACACCAAGATGAAAAATATAGTTTTT
TGATTTGAAAAAATATTTAATCCGTCAAACAGCGGTATTTTATTCAGGGCAAAATTTAT
TTTCGGCATCTGCTGTAAAACAAACGGAAATGCGATAATTTTCAGCATTTTCTACCT
GTTTAAACAAAGGACGGATATGTCGGCACAACCTGATCAATGGTAAAGAAGTTTCGCAAAA
ACGCTGACAGCGGTTGCCGAAGCGGTGGCGCAACGCCAACAGAACATCTGCACACCTT

-490-

TGCTTGGCCGCTGGTTTGTGTCGGAGGCGACCCTGCCAGCGCGGTTTATGTCCGCAACAAG
AAAATCGAAGTGCACAAAATCGGGCATCAATCACTGCTTACAGAGCTGCCGAATCAACA
TCGCAGGAAGCACTGCTGCACATGTGTCCAGCCGCTGAATCCGATTCGGAAGTGGACGGT
ATTCTGGTTTCAGCTACCGCTGCCGAAGCACCTCGACAGCCAGGCGGTTTGGAAACGTATT
TCGCGCGGATAAGGACGCTGGACGGCTTCCATCTTCAATGTCCGCGAGGCTGGCGGCTCAAA
ATGCCGCTGATGCGCCGTGTACGCCAAGGCGGTGATGACGCTTTTGGAAAGTTCACGGC
ATTGATCCGAAGGGGAAAAAGCGGTCGTGGTCGGCGCTCGAATATCGTCGGCGGCCG
CAGGCTTTGGAACCTGCTGCTGGCGCGCGCAACGGTAAACGGTCTGCCACAGCGCAACGGAA
AATCTGACAGACGAGGTTGCCGGAGCCGATTTTGGTGGTCGGCTGAGGCATTCCGAAC
TTTGTCAAAGCGCAATGGATCAAACCTGGCGCGGTCGTTATTGATGTGGGCATCAACCGT
TTGGACGATGGCAGCTGTGCGGGCGACGTGGAATTTGAACACGGCAAAAGAACGGCGCGC
ATGATTACGCCCGCTTCCCGCGCGCTGGGTCCGATGACGATTGCCACATTGATGGAAAC
ACCCCTGCACGGCGGCTTCAGTCGACGATGCTTGAGCGGTTCTGAAGATAAAATCGCGGCT
GAAAGGCTTTCAGACGGCATTTTGCCGTGTCCGTTATTTTGGGACGTTTGACGACAACCC
TATCCGCGCATGTATGTCGTAAGGCTGTCCGCGCGCTCGCGTTTGACCATAAAGAGCAGCAAA
AGTTGGCAAGGAATGCCAGACGGTTGATGGCGTTTCTCCGTTGTCACCTACTGCAAGAC
CGATAACGGCGGCAATAATGGCAACCAAAACCGACCATGCGATTTCGCGTACCAAACGG
TGCCGACAAAACCGGGATTGCGGCGCTCGGTTTCTTCAACACAGGATTTCTGATATTTTCT
TACCCATGACTGCGCGCTCCGGCTCATATAGTAGATTGGATGACGGTGTACGCCAATAA
TGCTTCGCGATCCTACCCAAAAGGAAGTCATGCCAAAAGCAGCCGGAATATTTCTTCGC
CGCTGCCAATCTCGCTTCATTTGTATGCGAAGAACATCAGTCCGGCAACGGCGACCA
ACAAAACCAAAAGGTAACAATTTGGTTCAGCAGCGCGCGCAAGTATCCGGTCGCCGTGCAC
CGGCAATTCGCACTCAATTCTCTCGCGGTTGCGGTTGTCGGAATGCCGCGCTCGGTGTAGT
CGTTTCTTTCTTCCATATCGTTACTTGATATAATTGTTCTTAACCTGACCCCGATTCTACGCC
CAGCACCCGAAACCGCCAATCTTAAAGAAATCCCGATAAAGAACTTTACATTTTCTCCA
ATACGGCGTTTAAACGCTTCTTTACGCCATACATAATTTATTAACGATTTTCTCTCAA
GGAGCAACACAATGAAAGTAGGTTTCGTGCGCTGGCGCGGTATGGTCGGTTTCGGTTTTGA
TGCAGCATGTGAAAGGAAGAAACGACTTCGCCACATCTCTGAAGCGTTTCTTCTTACCA
CTTCCAACTGTCCGCGCGCGCAGCCGCTGATTTTCGGTACGGCGGTAAACATATTAGATG
CCAACAATGTTGCGGAACTCGCCAAAATGGACATCATCGTTACCTGCCAAGGCGCGGATT
ACACCAATCCGCTTCCAGGCCCTGCGCGCACAGCGGCTGGAACGGCTATCGATTGACG
CGGCGCTCTCACTGCGCATGAAAGACAGCGGATTATCGTCTCGACCTGTCAACCGCG
ATGTCTCGACACCGGCTCAAAAACCGGCTGAAAACCTACATTTGGCGGCACTGCACCG
TTTCCCTGATGCTGATGGCTTTGGCGGCGCTGTTCCAAAACGATTTGGTTCGAATGGGCAA
CCAGCATGCTCAACCGCGCTTCCGGCGCGGCGGCGGCAAAAACATCGCGCAACTCATCA
CGGATATGGCGCGGCTTACGCGCCAAGTGGCGGACGCGCTTGCAGATCTGCCGCGTCGA
TTCTCGACATCGACCGCAAGATTCGGATTTCTCGCGCAGCGAAGCATTCGGAAGGCCA
ACTTTCGGGCTACCGCTCGCCGGCAGCCTGATTCGTGGATTACGTGGATTTTGGGCAACG
CGGAGTTCAAAGAAAGATGAAAGCGGCGGTGGAACCAACAATACTCTCGCCGCGAGCG
ACAATCCAACCGTGATTGACGGCTGTGCGTCCGCGTCCGCGCGATGCGCTGCCACAGCC
AAGCGCATCTGTAAGTTGAAAAGAACGCTGCTGTTTCCGAATCGAACAAGATTTTGG
CAGGCGCAATGACTGAGTTGGTGAAGATCATCCCAATGAAAAGAACGCCAGCATCCAGCAG
TGACTCTCTGCCAAAGTTACCGGCACGCTGTCCGTCCTGTCGGACGCATCCGCAAACTGG
GCATGGGCGGCGAATACGATCAGCGGCTTACCCTCGCGCAACCAATTTTGTGGGCGCGT
CGGAACCGCTGCGCGCGGATTTGCGTATCGTGTGGGACGCTGTGAGCCCTTTTGAAT
GGAAATGCGCTCTGAAGCTGTTTCAGACGGCATTTTCTTGCAACCTGCGCGGATAACG
CCCTCGCGGCACTGCCGACGTAAAAAATAAAGGATTCATTTCCGGCGCGATGCGCGCAGC
CCGACTTTATCCGAACCTGATGCGCTGACGCTCAATGAAAACAGCCGATTCGCGGACTT
CTCTGTACGCGGAAATTCGATAAGGCAAGCTTACGCGCAGCAACATTTCTGTCATCA
GCTTCATACCCCACTGCCAGCGCGCGAGCATGCCGTTCAAACCTGCCGAATCGGGGAAAA
CCAACAGGCGGGGCTTCCACAAATCCGCTGTTTTCGGCCCAACCTGCGGCGACCGCGC
CGTGTTCGGGTACAACCAATCGGCGACGCGGACGAGGACGCGGTTGGAAGCGGTGTT
CCGCATCGTCGGGAAAAAATATCGGAGCGCTGCGGTACAAGGATGATGTTGGCAATTTTCT
TCCGCTGTCAGATGTCTGCTGATACGCCACGCCAAAATTCGGCGCGCGCCGACCGGT
GTGCGCAACAGCGCAGCTAATTGCGCGTATGCGTTCAAATGCGCTCTGAAGCCCTGCTT
GCCATTTCCCTATGCTTTGACCGGCGCAGCGCTTCGGACATCTGCACGACGGGATAACTGA
TCGCCCAACCGTCTATCCCATCTGATCCTCTCCGGCATCGCTATCAGCCAAGCGGTC
AATCTTCGAGTTCAAACACCTGTCATACCGCTCCGCTATTTCAGCAGGTCCCGAGGGTCA
AAGGCGATGAGCAGCGAAGCGGGTACGCTCAATTTGGCGCAGACGGTACGGAGGCAAAA
ATATTCAACACCCGCGCGCAGCCTTTCCAACCCAAACATTTGGACGCAATCAGCAGGCG
GAGCGGCAATCAGCAGCACACCAACCGCCATATCGGGTTTGCTTGTGCGCGCAAGC
CGACCTTGATTCGCGGACCAATAAATCGCCACCAACAATGGGCGAGGATTAACGCGA
GCGACAGCCATGCGCGGCTATTCTGTTTTCGCTCCACATTTCAAATCATATTTACCC
AAAACCTTTATCGGACAGTAGTCATACCTCACAGCAGCGCGCATGGTTCAGAAATTT
TTCATCTTTAAGAGCTGTGCGGACAGCGCTTTGGCAGCAAGTTCTGGGCGTAACCATCTG
ATAATCGATGCGCCACCCGACATCTTTGTCATACGCTGCCCTCGGTTGCTCCACCAAGT
GTAGCCCGGCACATCGGGATAAGCGTGCGCCACATATCTGCTCAACCGAGCTTTGTGAT
AATCTTGCTTCTCACTCGCGCTTCTCAGCAGGAACCTGAATTTTCTGTTGCTGCTTT
CCAGTTTTCAGGTTCGATGTTTTGGTGGGCGATGTTCCAGTTCGCCGACAGCACAATGTC
GCGCCCTTCTGTTTTCATCGCTTCGAGCATAGGTTAAACGCATCAAGGAACCGGATTT
CCTCTGCTGGCGTTTCTCGCGCTGCTGCCGCTGGGCAATAAAGCGAGATAACGCTCAA
CGTGGCGAATTCGACAGCACAACCGCCCTTCTCTGTCGAATTTCAATGCCATACC
GATTTGCACATTTGTCGGGTTTGCGTTTGTGTCACACGCCACCGCGCTGTACCGCGCT
TCTCGGCGAATGCCAATGACCGTGATCCCGTCCGGATTTTTCATATCGGCACCAACAT
AGCCTCTCGCGCTTTGAGTTCTCTGACGACAGCAATGTCGCGCGCGATGCGCGCATGTG

Appendix A

-491-

TTCTGTAACAAACCTTTTGTAGGCGGAGCGGATGCCGTTGACGTTGGCGGAAATGATTTT
AAGCATATAAAATAAGTTCTCACAATAAAATGCCGTTGAACAAAAAGGGCAAAAT
GCGGCACATTTACCTTTTCGATGGATTTAACCAGCGCCGCCAAGTCGTGCCGCCGCGCT
TGTCTTCCAAATGATTTTGTGTTTCGTTTCAAGAGTCGCGGATGCCGTCGGATTCGCC
AGTTTTTATCGGCGCGCGCTGTTTCCGCGGGCGATCAAGTCTTCGATTTCTTCGTGG
AGAGACCGTCTGAAGCCGCGCGCCTTGACGAACTCGGTCGGATCGCGTTGCAGCAGTC
CGATGATGCCGCCCAAGGCTTTCAGACGGCCTGCCAGTTGCGCGTCATTGGTTTTGTCA
CTTCGCCGCAAGTTCGAACAACACCGCCACCGCTTTCACCGTATCAAATCATCATTCA
TCGCAACATAAAAGCGCGCGTGTAGTCATCGCCGCGCTTTCAGACGGCATCGGATCGCGG
GCGGCGTATTTTCAAAGTCGTATACAAACGCGTCAACGCGCCTTTTGCATCATCAAAT
GCGCGTCGGAATAGTTTCAACGGGCTGCGGTAGTGGGCGCGCAGGATGAAGAAGCGCACGA
CTTCCGGATCGTATTGTTTCAACACTTTCGCGGATGGTGAAGAAGTTGCCAGCGATTGG
ACATCTTTTCGCGCTCCACGCGGATAAAGCCGTTGTGACGCCAGTATTGACGTGGCTGG
CGATGCTTTGCGCGTGGTGGGTTTTCGCGGTGATGATGACCGCAGGTATGCCCGTCGCG
CGACGCTTTGGGCAATTTCTGTTTTCGTGGTGGGAACTGCAAATCCGCGCGCGCGCGT
GGATGTCGAAGGTATCGCGCAACAGGTTTTCACCTCATGGCAGAGCATTAATGTGCCAAC
CCGGACGCGCTTGGCCACGCGGCTTTCACGCGCGGTTTCGCTGCTTTGGCGGCTTCC
ACAACACAAAATCAAGCGGATCGCGTTTGAACCGTCCACTTTCACGCGTTTCGCGCGCAC
GCAGGTGCTCCACGATTGCCCCGACAAATGTCCGTAAGCGGCAAACTCGCGCACGCGCT
AGTAAACGTCCGCATTTGCGGCAGGATATGCCTTGCCTTTTGAATCAGGGTTTCAATCA
TGGCAATCATTTTCCGGAATGTTTTCCGTTGCTTCGGCTCAATATCCGGACGCAACACG
CCAAAGCATCGGCATCTTCGTGCATGGCTTGGATGAAACGCGCAGTCAGTTTGGCGATGG
TCTCGCGCTTTTCAGCGCGCGCGGCAATGATTTTATCGTCGATGTCGGTGATGTTGCGTA
CATAAGTGAGCGGATCGCGCACTCGCGCAACCAACGGGCAATCATGTGCAACACCA
TCACGCGCGGCTGTCCAAATGGCAGTAATCGTAAACGGTCATACCGCAGACGTACATAC
GCAGCTTTTCAGGTCGATGGGGGAAAGGGTTCTTTTTCGCGGTTAGGGTGTGTGAGA
TGGTGGTCATGGGATTATGGATTAATCTTTGTTGCTCGGATGATAATTTCTGTTCTGTT
CTGTAGATACGGACCAAGCAACATTACGTAGTTGCGGATTATTAATATGGCTGATATTTG
TGAAATTTGTTCTGCATAACAGTTTGCAAAATTTTTGTAAATTTCTGATAATTTAACT
TATCTTTTAATAGTTTGTCTAAATCTGATGACGAGGGATAAAGTTTACTTCTTATACTAG
GCATTTCAATATGAAGGACATTTTATTTCGTTACAATCTAAAGCCAAGCGAGAAAAAT
CTTTTCTTCTCTGTTTTTCTGCTTTAAATTTAGCAGAAACCAATCTGCCAATGAATCTC
GAATTTTCTTTCGATTAATATGGTAGGTGAGAAAGTTTTCATCTATTGATTGGGCAT
TTGGCTCAAGCCCAAGTCGGTAATAATCTTAATTTTCGATTAGCCAAAGTTCGATTAT
GAAGGCTATTATATCTACACCTGAGCTGCCATTATCGTCATCTACACTTTGATTTATCC
CGTTCTTCCCTTTTCATTTGTATCAATTTTATTACGTAAATTACAACGTCTCTGAAAAA
TTTTATAATGTTCCCATCTCGTCATCTTGGTAACGTAATAATCTTCAGGAAAGCAAAAG
TTAATCTCTTTCTGTGATTGTAGTCATAGCTTAACCTCAAAATATTCAGATACCTGTCTG
CCTGCATAATGTTTTCTATCAACAATATCAATGTGTTCAAATCATTAATACTGTTCCCTT
GCTCCACTTTTGTTCATCATCGGAAGCAATCAACGAGAAAAACGTACAGGTAATCCG
TGTATTTTTCAAAGCTTCAAAGTTCCAATTCTCTCAATAAGAATAAAGAGTGTGTTGCAA
TAAAAACCTGAATACCTGTTGAGATAAAGACCAATAATACGGGCAGCCACTTTGATCA
ATTTAGGATTACAGATTAGCTTCCGTTTCATCCCAAAATAGATAGCCTTTATCCAGCAATG
CCCCTGTTGCGATTAAACGGGCAATCATGACAAATTTCCGCAAAACCTCTGCTACCAAAG
GTGCTCAATCTTTGGTTTTGTATACAAAGAGTGAACCAAGGGCAAGGTGTAATTAATTCG
ATACTTTTCCGCCCATCGCGTTCTCAATAGGTTTCGAGCAATTCGGAATTTTGTTCCTC
TGGGGCTTTTGGCAAGCGGGTGAATTAATGTCATACAGGTATCAACCAAGTTTCTTCGA
AAGGATGCTTTGGTTTTGTATACAAAGAGTGAACCAAGGGCAAGGTGTAATTAATTCG
GGCTGGGTAAGAAGATAGGTGTCGGAGTATATTCATTTTCTTCAATCCGATGCTTTGAA
CATTGACTTGGCATGATGAGTTACTGGAAAAATTCAGACTACTATGCGTAGTGCGGTTT
GCAGTTTAAACGATTTCCGTACGCGCGCGCCCTGCAACGTTTGTCAACCTACCCA
AGGAATCGGGACGGAACCAATTCAGTAATTTATCGGCAAACTTTTGTCAATCTGTTT
TCAGTAATCTGTTTTTGGTGTAGATGTTACTTCTAGCAGGCTGTATAAAATTTTAAACA
AATGTGTTTTGCCACAACCGTTTTTCGGCAACAATAACATTGAGATTTTCAGAAAATTCAA
AAGTATCGTTTGGGAAGACGGTAAAGTTTGTCAACTCAAGCGACTGGATATATTGGTTAG
ATGACATTTTAAATCCATTCAATCTTGCTTTAAATTTGTTTCAAACAACCTTTGTAGA
ACAAATATCGTCTGAAACCTTTCTTTTTTCACTCCGGCTTAAACACGCGTGTATCCGTT
TTAGGCTGCTGTTTCGATAAATTTCAACATTGCGCGTGCTTCTCCGCTTCTGCTTTTCA
GCTTCGATACGTTTTTCTCGGTGAGTATTGGTTGATTGGTGTACCAATTCCTGCGTG
CCTTGTGGGTGAGCGACTGATTGGAAGAGGCGCGGGGTTTCCATGTCAAATTGAAAA
CGGTCGTGCGGTTTTGGGTAAGTCCAGCGCGCGCTTCGAGGAAGCGCGCAGTGCAGCTT
TGGGCTTCTTCTTCGTCAAGCATATCGAGTTTGTTCAGTACCAAGCCAGCGCGGTTTTGCC
TAGAGTTCTTCGTGATTTTGGTAATTCGTTGATGATGGCAGTGTCTTCTCGCGCGGG
TTGACGTTTCTGTCGAAGGGCGCCAAATCGACGAGTGCAGCAGAGGCGGTCAGTGAT
AAGTGTGAGGAACAGATGGCCGAGGCTGCGCCTTCTGCCGCGCTTCAATCAGGCCG
GGGATGTCGGCCATCACGAAGCTGTGTTTTCTGTCGATGCGTACCACGCTAAGTTTGA
TGCAGGTTGGTGAAGGGTAGTTGGCGATTGTTGGGCGTGCGGCGGATACGGCGGTAATC
AGGTTGGATTGCGCGGCTTGGGCATACCAATAAGCCGACATCGGCGAGGACTTTAAGT
TCGAGTTGCAAGGAACGGCTTCCCTTCTTCGCGGGGGTGGATTGTTTTCGGGGCGCG
TTGACGAGCATTTGAAGTGGATGTTGCCAAGCCGCTTTCGCGCTTTCGCGAGGCAG
ACGCGCTGTCCGTGATAAGTGAGGTGCGCAACGGTTTCGCGGTTGTCGAGGTGCGGGATA
AGGTTCCGACCGGCAATTTGAGGACGATGTCGTCGCACTTGCCTGTAACGGTTCGAA
CCGTGGCCTTTTTCGCGTTTTTGGCTTGGTAGCGTTTAAACGAAGCGGATTTCGACGAGG
GTGTTGGTTTTCTGTCGCTTTCGCCAGACGCTGCGCGCTTTCGCGCGCTGCGCGCGG
TCCGGCGCGCGCGGTACGAATTTTCGCGCGGAACTGGTTGCGCCATTACCGCT

Appendix A

-492-

TTGCCTGCGGGGACTTCGATTTTTGTCTCGTATGAATTTTCATTCAATGCTCTTGTTTG
TTGGTTTCAAATGGGGGGTTCAGACGGATTACCGTGTGTTTGTATGCCGTCCGAACAGAA
TTTCGGACGCTATTATAAGGGATAAGCGGTATTTCAACACGCCGTACCCAACTATTGT
TCCGCCCATCTTAATGAATTTTAAAGCAAATCTTCAGCCTGCAAAACAAAATATGTCCAA
CTTCTTTGGTACAATCGCGCCTTTTGTACATCCGACCCGACGGAATGTCCGTTCAAACC
GTTACATATAATAAGTTTTTATGAACACAAACCAACCTGCCGTTTACGACCCGTTGACA
CGCGCGCTGCACTGGCTGACCGTTGCCGGCTTCATCGGCATCTGACCACCATTTGCTCTG
TGGACGATTTATAGTGGATTAAACAAAATCAGGACAAGGCGACGAAGCCGACAGTAC
AAATAGTACGGCAAGGCGAGGCAACGCGTACTGGTTTTGTAAATCCACTATACGAAGA
GGCGGAATGGGTGGGACGCTGTTCCGGCTGCACAAATCTTCGGTTTCTTACGCTGAC
GGTGATTACATTGCGCATCGTGTGGGCGTTGCCAACCGCGCCAAGCGTCCGCAAAGCGA
CTGCAAGGCTGCGGCGGACAGGCCACGGCATCTGTATCTGCTCATGCTTGTGTTCCCGT
TATCGGCATGATCCGCCAATACGGCAGCGGCCGCGGCCGTTGAAAGTGTTCGGCGTTGA
AGTGATGCAAGGTTCTCGCGGAAATAATCGAGTGGATGGCAAACTTGGGCAACACGTTCC
ACGGCAATTTGGGCTTGCTGCTGTTGCCCGCTCGCCGGACAGCTGCCCATGGTCTGTCG
CCCACCGTGTTCAGGGTAGAGATGTTCTGTGCGCATGACGGGTCTGTCCGCTGATTCC
GTTACACATATGTTGCCGGCTCGTCCGGCACTATTGTTTTTCCAAGACAGAGCCAGAT
GTACAAAGCTTTCTTTCCCTCGCCGCTGATTTTGGCAGCAAGCTCCGCCGCTGTTTGGT
CGGCAGCTCGGCTGTGAGGATTTTCATGATGTTTTCGCGGACTCGGACAAGCCTTCGTG
TTTTTCATCCTGCGCCGGATAAAGCACCAACACCATCTCGCCGCGGATTGGTTGCCGTC
GGCAGACAATGCCGTCTGAATTTCCCAACCGTCCGCTTAAGAAGCTTTCAAACGTTTT
CGTAATTTTCGCGCCAGCATTAAATCGGCGTTTCGGGAACAGTTCCGCCATATCGGCAAG
CGTCGCACCGATCGGGTGGCGGTTTCAAACATGACGATAGGAAACGCCGCCGACCCCA
TTTGGCAAACAGTTTCTCGGCTTCTCCGATTTCGGCGGTACAAAACCGTTGAAATAAAA
ATCGGATCCTTCCACACCGGCCACGCTCAAAGCCGCCATCACCGCCTTGCGCCACGAC
GGGAACGACTTTAAACCCGGCCTCACGCACGCGGGCGGAGTTTCGCGCCCGGGTCGCA
CACGGCCGGCGTACCCGCATCGGAAACCTGTGCCACAACCATGCCGTCTGAAAGATAGCC
GACAATCTTGTCCGCCATCTGCCGTTCTGTTGTTTCGCGCACACTGACGAGTTTGCCTG
AATGCCGTACGCGCTCAAAGCTGTGCGGTAACGCGCTGTCTTCGGCACAGATGATGTC
CGCCTTTTGAATACCGCCAAAGCGCGCAGGGTAATGTCCGCCAATTTGCCGATGGGCGT
GGCAACACAGTATAATGTCTCCCTCCGACGACGCTGTTCGGAGGCTTTCTGCAATGTTTCTG
AAACATAAGATGCCGTCTGAAAAACAAACATTATAAAGGTAAACCGATTATGCGCCTA
AACCACAACAGGGCGAGGCGAGGGAAGATGCCGCGCTTGCTTCTCCAAATCCCAAGGC
TGCACGCTGCTTGCCCGCACTGGCACTGCGCCTACGGCGAAATCGACCTGATTGTCAA
AACGGCGGCGATGATTCTGTTTGTGAAGTAAATACCGCAAAATCGGCAATTCGGCGGT
GTCGCATACAGCATTTCCCATCCAAATTATTGAACTGCAACGAAGTGATAGATATTAT
CTGCAACAGAACAGGTTGACAAACGTACCGTGCCGCTCGATGCGGTACTTATCGAAGGC
AGCCGCCCGCCGAGTGGATACAGAATATTACAGTTGACGATATGACGACATTACAGA
ACGCGTTGCGGCCCATTTTGGCGAAAGCATCCGTGCCAAGCAGGAAGCCGGAAAGTATT
GGTCGAGCCGACGTACAGGCTGCCGAGCTGATGCTGAATGCCTGATGAATGACGGCAA
AATCTGGCCTGCGCAACGGCGGTTTCGGCTGCCGACGCGCAACACTTCGCCGCCGAAT
GACCGGCCGTTTGAAGAAAGACGCATGGAACCTCGCCGCTGTGCGCTGACAAACAGACAC
TTCCGCGCTGACAGCCATCGGCAACGACTACGGTTTCGACCACGTATTACGAAACAGGT
GCGCGGCTCGGACGTGACGGCGATGATTGGTCGGCATTTCCACCTCCGGCAATTCGCG
CAACGTATCGTAAGCGCTCAAAGCCGACACGAAACGCGATATGACGCTATCGCCTTAC
CGGCCGCGACGGCGGCAAAATCGCCGCCATACTCAAAGACACCGACGTTTTGTCAACGT
TCCCCATCCGCGCACCGCCGCTATTCAAGAAAACACATCTGTGATACACGCCATGTG
CGACTGTATCGACTCCGTACTGCTGGAAGGAATGTAACCTTTTCAGACGGCATGGCGCA
AAGCAATGCCGTCTGAAACGCCCAAGAAAGGAAGCACCCGATGAAACCCAAACCGCACAC
CGTCCGACCCCTGATTGCCGCCATTTTACGCTTGCCTTAGCGGCTGCGTCAGCGCAGT
AATCGGAAGCGCCGCTGCGCGGAAATCCGCGTTCGACCGCCGAACACCGGCGCGCA
AACCGACGACAACGTTATGGCGTTGCGTATCGAAACACCGCCGTTCTTATCTGCGCA
AAACAACCAAACAAAGGTACAGCCCCAAATCTCCGTGCTGCGGTACAACCGCCACCT
GCTGCTGCTCGGACAAGTCGCCACCGAAGGCGAAAAACAGTTTCGTGCGTCAGATTGCACG
TTCCGAACAGCGCGCGCAAGGCGGTGTACAATATATTACCGTCCGCTCCCTGCCGCGCAC
TGCCGGCGACATCGCCGGCGACACTTGAACACATCCAAAGTCCGCGCCACGCTGTTGGG
CATCAGCCCCGCCACAGGCGCGCTCAAAATCGTTACCTACGGCAACGTAACCTACGT
TATGGGCATCTCACCCCGAAGAACAGGCGCAGATTACCCAAAAGTCAGCACACCGT
CGGCGTACAAAAGTCATCACCTCTACCAAACTACGTCCAACGCTGACTCGGCAATGC
CGTCTGAACCGCTTCAGACGGCATTGCCCGACACCCCAAGCACAATCAAATGGCAA
AAAAACCGAACAACCTTTCAGGCTGACCCCAAACTCTGATACGCGCGTATTGCTCA
TCTGTATCGCCGCGCATCGGCGCATTTGGCAATAGGCATCGTCAGCACATTCAACCCGAACG
GCGACAAAACCTTCAAGCGGAACCGCAACACACCGACAGCCCCCGGAAACCGAATCT
GGCTGCCAAACGGCGTAGTCGGACAAGATGCCGCCAACCCGAACACACACGCGCGCT
CATCCGAACCCGACAGCGGCAACAGCTGAAACACACTCAAAGAAACCCCGTACTGCCCA
CAAACGTCCTCCGTCCTCGAACCCGAAAGAAACACCCGAAACAGGCGCAGCCCAAG
AAACGCCCAAGAAACCAATACCAACCGGACACCCGAAACACGCGGCCCAACCC
ATAAAGAAATCTCGACACCTCTTCTGACCCGGCACGGCAGGCACACCCGCAATCCAAG
GAAGCATTATGAACGGCATCATCAAAACCCCGAAGAAATCGAAAAATGCGCGAGC
TGGGCAACTCGTCCGCGAGCCCTCGACTACATCGGACAATTCTGTAACCCGGCGTAA
CCACCGACGAATCGACAACTCGTTTACGACTACCAGCTCAACGTCGAAGCGGCTATC
CCGCCCCCTGCACTACGGCAACCGCCCTACCCCAATCTGTGCTGACCTCCGTCAACC
ACGTATCTGCCACGGCATTCGACGACAAGCGCTCAAAGAAGGCGACATTATCAACA

Appendix A

-493-

TGCACCTCACCATCAAAAAAGACGGCTTCCACGGCGACTCCAGCCGTATGTTTACCGTCG
GCAAAGTCTCCCCCATGCCCAACGCCTGATCGACGTAACCCACGCCTCCATGATGGCGG
GCATAGAAGCCGTCAAACCCGGCGGACACTGGGCGACGTAGGTTACGCCGTGCCAACAGG
TTGCCGAAAACGCCGGCTATTCCGTCGTACAGGAATTCTGCGGACACGGCATCGGGCGCG
GTTTCCACGAAGCCCCGCAAGTGTGCTACTACGGAAGAAAGGACAGGGCCCCGTCTAA
AACCGGTATGATTTTTTACCGTCGAACCGATGATCAACCAAGGCAACGCCACCTGCGTA
TCCTCAACGACGGCTGGACGGTGGTTACCAAGACCGCTCCCTCTCCGCCCAATGGGAAC
ACGAAGTCTTGGTGACCGAAACCGGCTACGAAATCTCACCGTCAGCCCCGCTCCGGCA
AACCTGAAACCGGACGTATCCGCCCATAAAAACAACATGCCGTCTGAAAGAAACGG
CAGATATGATATATAATATAAAAAACAGGCTTGACCCGGCACATTACGAAACAAAGCAAA
TCGGAATTTGCCCGCAACCGACAAACTTAAAGGAAGTTTATGAAATATTTGAAAT
ATAGAAGATGTTAAAGCCATCCGTAAAAAGACCGGGCTGAACAGATAGACTTCTGGGGC
AAGGTCGGCGTTTACCCAGTCCGGAGGATCGCGCTACGAAACCGGCCGCAAAATGCCAAA
CCCGTACGCGAACTCGCCCTCGTCCATATCGAATGCATCGATTGGCGAAAGTCAAC
AAAAAGATATGGAATCGCCGCCCTGTTGAAAAAACCATCCCGACCTGTATGCCGAG
TTGTCCAAACAGACCAAGTCCGAAAGAAAAACAAAGTTAAACCGCAACCTCCGGATGC
CCGACAGTTTTTATTCCGAAACGCAACATGCCGTCTGAAACACCGGACAGGTGC
CCGTATCCCGCCTGCCGCCCTGCTCAAACCGCGAACCGGCCGAAACCGCCTTTTTAC
AACTTTATCCAAATTTCTGTTTTATTTCGGGATACGCCGACATTAGAATGTCAAACAGCT
CGAAACGGGCAAACTCCACATCCATCCAAAGGAATAAAATGAACTTCTGACCACCGCA
ATCCTGTCTTCCGCAATCGCGCTCAGCAGTATGGCTGCCGCCGTGGCACGGACAACCCC
ACTGTTGCAAAAAAACCGTCAGCTACGTCTGCCAGCAAGGTAAAAAGTCAAAGTAACC
TACGGCTTCAACAAACAGGGTCTGACCACATACGCTTCCGCCGTATCAACGGCAACGC
GTGCAATGCTGTCAATTTGGACAAATCCGACAAATGTGGAACATTTACGGCAAGAA
GGCGTTATGTTTTGGGTACCGCGGTGATGGATGGCAATCCTACCGCAACAGCCCAT
ATGATTACCGCACCTGACAACCAATCGTCTTCAAAGACTGTTCCCCACGTTAATCAGGC
AACAAAAACAGCGTTTTTCAAGATGAAACCGCTGTTTTTTGACCGTTCATTATTCAC
AAAAGGGAACAAACGATACCTGCCCGGTATCAAAACCTGCCGTGCCGATGAAGGGC
ATAACCGGCAGGGACGGCGTCAACACCATATGGGGGTACGGCTTTTCTTGAAGATTCCG
CTTAAATATCCAACTTTTCGCGGTATAGCGGATAATTTTCATCCGCCCTTTTCAGGGTTTT
CGTTCAACTTGATGCGCTAACCCGGTACCAGCTCTTTCAGACGGTCTTCCCAAGACGGG
CGCGCTCGGGGAAGCATTTGGTGCATCAGCCGGATCATCAGCGGCACAGCGGTGATGCGC
CCGGCGACGCGCCAGCAATGCGCGAGTGAGCCGTGCGCGTGGCGGCAATCTCCGTAC
CAAACGGAGCAGCCGCCCTTTTTCGGAGTCTTTTTTAATGATTGGACGGTTCCTG
CGGTGATGAGTTTCCGATCGTTCGGGGTTTGCCTCGGGGTAGTATCCAGCAGGGAGGCGA
AGCGTTCTTCTTTGGTTTTACGCAATTCGCCAGCAGGTATTTGGTCAGCGGCATATTCG
CCCAGCCGGCGCACAGCATAGGATAGAGGTTGTCCATATGGATGGACAGCGGCAATCCA
TAAGCGAGCCTTGCTTTGAGGAAGTTGGAACGGAAGCCTGCGTAAGGGCCGAACATAAGT
GGCGTTTGGCGTCCACGTTGCGTGTGTCGAGGTGCGGGACGGACATCGGCGGCGCGCGA
CGGAAGCCTGCCGTACACTTTGGCGTTGTGTTGTTGTCGGCGGTTTCGGGGTTGCTGTTGC
GGAAGAACAGGCGGACACGGGGAAGCCCGGTAGCCTTTGCTTCGGGGATGCCGATT
TTTGCAGCAGGGTCAGCGCGCCGCCGCCGCGGAGGAAGAGGAAGCGGGTACGGAGGG
TGAGCTGCCCGTCGGGGTTGCGGGTATCGCGGTTTTGAGCACCCACGCGCGCTCGGATT
CGCGTTTGATGTCTTCGACGTGGCGGTTGAACTCGGTTTTTACGCCCTTGCCCTGCAAA
ATTTACCAATTTGGCGCGCTCAGCCGTCCGAAATCGACATCCGTACCTTCGGCGGAGTAGT
TGGCGGCGACGGGTTGGTTTTCTGTCGCCGCCGCGCATCATCAGCGGAGCCCAATCGGAAA
TTTTGTTCCGATCGGTGAAAAATTCATATTTTCAAAAGTTTTTGGGTTTTAAACCGGT
CATAACGTTTTTGAAGATTAAGAACCAATGGTCTTCACTTATCACCAGACATATGCGGCA
CGGCATTGATGAAGGAATTGTCTTCCAACCTTGCTTCCGCGACAGCGTCGCCCAAACT
GGCGGTGACATGAACTGTTCGGCAATATTGAGGGCGCGCGCGGATCGATAATCCCAT
TTGCACCAACGGCGCATAGTTCAATTCGCACAGCGCGGAATGCCCGTGCCGGCGTTGT
TCCACGCGTTTGACGATTTCACACGCCACATCTTCCAAGCGTTCAATCAGGGTGAATTC
AAGACGTTTCGAGTTCTTTGAGCAAAACGCCCAAAGTCGCGCTCATAATGCCGCGGCCA
CCAAGACAACGCTGTGCTGCTTACGCCATGGTTTTACTCTAAAAACAGGCATCTTCTGCC
CTTATGTTATTTCGGCTACTACAAACGCCTGAATCGCAAAAGCAGGGAACCGGCAAT
GGTGTGTGTCGAGTATGCTGTTTTCGGGGTGGAATGCGTTGCAAGCATGGCTTCCGACA
CCGCTTCAGGGGCTTGTAATATGTATCGTGAATGTAGTGGATTTTACTGGGAAATGCAA
AGTTTTCTGTGCGCGCCCAAGTCGGGAACTGCGAAATGAAAAATAAAAAATAGTTATTT
ATCTATATATATCAAAATTTTAAATAGATAAAAAATCAAAATTTGTTATATATTAATTTTT
AAAAGATTGTCAGCATATGCGTTAAGTTTTTTATAGTGGATTAACAAAAATCAGGACAA
GGCGACGAAGCCGACAGTACAAATAGTACGGAACCGATTCACTTGGTGCTTCAGCAC
CTTAGAGAATCTGCTCTTTGAGCTAAGGCGAGGCAACGCTGTACTGGTTTTTGTAAATC
CACTATAAATTTGAAAAACTGCTCACACCTGCACGCCATACCTGCCAACCTGCCGGT
CAGGATTTCCCTGTTTTTGCACCAATCTTCCCTCAGCATACTGTACACGACCGTATCGCG
CACACTGCCGCTTTACGGAGCATATGCATACGACGACGCGCTTTTTTCCGACCCAG
CCGTTTCGATGGCACGTTGCGAGGCAAGGTTTCAAGATATCCGTGCGCCATCCACGCAACG
GCAAGCCAAACATCAATGCGGAATCCAACAGCATGATTTGCAACAGGTGTTTATCCG
TGTCCGCCGTGCCGATGCCGATACCATGTGAATCCGATATCCAAACCGGAATCTGCCG
TTCAAAATGATAATACGCGCTTGTCCCGACCACTTCCGCGCTTTCATCGACACCGC
AAACGCCAAACGCGTTGCCAATGCTGTCCGATATAGTCTGCCACCTATCCGGATGGG
CGCGGAGCTTACCCCCAGCTTCCAAACCTCCCCATCGCAAAACCGCCTCGCGCAACCCGT
TTCATGATGCATCCACACGTTTCGAGACGAACGCCGCCCAACGACAAGACCGGAGTAT
TATCTTTTCCGACATCTTTTCTCCCAATATTCCGCCTTCAGACGGCATTTCCGCCCGGA
ATGCCGTCTGAACGGCTTAAAAACAAATATCCCCGCTCCGACACAAAACCGTCCAAAGA
CCGGTCGTGCGCTCGACCGGACGCTGTCCACCAACTGGCAGGCAAGCCACGCCCCAC

Appendix A

-494-

GGTTTTTGCCTGCAACCGTATTTTCATCGCTGAAAGCGTCGCATCGTAATAGCCGCTGC
CTGTCCCAAGCGGTAGCCAGCCTGTCCATACCGACCACTGGCACAAGCAGGAGGTTCAA
ATCATGCACACGCTTTTCCGACCTGCAAACTGAGGGACATGCAGCTTCGCCCTACCGCG
CTTGCGTTCTTGTATTTTACCTGCTATCGGCAGGATACGGCGTAAACCATCCGCCGCGAACG
CGGTTTCGATATAAGGCAGGTAGAGTTCGCGACCGCGTTTTTGCGCCGCGCGGACAAAGCC
GTCCAAACGCAATTCCTTGCCCATCGGCCAATACACGCCGATTTTCCGCCCTTTTTTAAT
ATAACGTTTGAGCAGGTGGTTGATTTTACCCTTGCGCGCGCCGACGTCCCGCCCAT
TTGCGAACGCGCGCCGCAATTCGCGGCGCAGGGCGGTTTTTCTCGTTCTCTCATTTT
AGACGGCTTTTCAGGATTGCGGTAGAATGTGCGATTATAACGATTTTGTTAACATTCAA
ACAGGACGCACACAATGTGGCACAATCGTCGCCATCGGCTATCTTTTGTGCGGTTATGT
ATTCGCGCGCGCGAGTATTGCGCGCGCCTTGATTTATTTGGTTTTTTGGGCGGTGC
TGCCACCGTGTTCACGGTTTTTACCATTACCGTCCGCCGCGCAACCACCTGATGAGGC
AGCAGGAACAGCGGGAATCCGAACAGCAGCGCGCAACGGCAAAAAGACAGCGGCACAA
AACCTGAATCCCTTTTTCAGAGGCATCTTATCCGCTATAATCCGTCAGTTTCCATTTC
GGAAACACACTATTTTTTAAACTTATGCCCACTTTTCGCCGAAGGGTGCTTGACAATAGG
CGTGACCTATCAAGTTCTATGCGATTGAATGTGTCTCTTAACCTTTCAAGGAAATAAA
ATGTCTCAAATTACTATGCGTCAGATGATTGAAGCCGGTGTTCCTTCGGCCACCAAAACC
CGTTTCTGGAACCCGAAATGGCACAATACATTTTCGGTGCGCGCAACAAATCCATATC
GTCAACCTGGA AAAACCTGCGGATGTTCCAAGACGCGCAAGAAGCCGTACGTCGTCG
GTTGCCAACAAGGTACGATATTGTTTCGTAGGTACCAACGCCAAGCCCGCGCATCATC
CGCGAAGAAGCGCACCGCGCGGTATGCCCTTCGTCGATTACCGCTGGTTGGGCGGTATG
CTGACCAACTACAAAACCGTTAAGCAATCCATCAAACGCCCTGGAAGAAAAACCGCAGCC
TTGGA AAATGCTGCCGAAGCGGTTTCAGCAAAAAGAAATCTGGA AAATGCAACGCGAT
GTTGAAAACTGGAACGTTCTTTGGGCGGTATCAAAAACATGAAAGGCCTGCCTGACGCG
ATTTTCTGTTATCGATACCGCTACCAAAAAGGTACTCTGGTTGAAGCTGAAAAATTGGG
ATCCCTGTTATCGCGTAGTTCGATACCAACAACAGCCCCGACGCGGTGAAATACGTTATC
CCCGGCAACGACGACTCCGCCAAAGCCATCCGCCTGTACTGCCGCGGCATCGCTGACGCA
GTTTTGGAAGGCAAAAACCAAGCGCTGCAAGAAACCGTAGCCGCTGCCAAGAAGCCGCT
GCCGAGTAATCCGGCAACCGAAGAGGGGCGTTATGCCCTTTTCTCAAATATGCCGTCT
GAACGTCGTTCCGCGGCACACGATTCCCGAATGCGGAAAACTCTTTCCGTTATTTCCAAA
AATCTAGGAGATTCAAAATGGCAGAAATTACTGCAAAAATGGTTGCCGACCTGCGCGCCG
CTACCGGCTGGGCATGATGGAATGCAAAAAGCCTTGGTTGAAGCCGAAGGCAACTTCG
ACAAAGCCGAAGAAATCTGCGTATCAAATCCGGTGCGAAAGCCGTAACCTGGCCGCGC
GTACCGCTGCCGAAGGCGTATTGGCTTACGCGATCAACGGCAATGTCGGCGCATTTGGTCG
AAGTAACTGCCAAACCGCATTTCTGTTGCTAAAGACGCGGGCTTCGTAGAATTGGCAACT
TCGTTGCGAAAACCTGCTGCCGAGAAAAACCGGCTTCTGTTGAAGAACTGAGCGAACTGG
TTGAAGCAGAACGCAAGCCATCATCGCCAAATTGGGCGAGAATATGTCTGTCCGTCGCT
TCCAAGTGATCGACACTGCGCAACCAACTGGTTGCCATACACCGCGCATTTGGCGACCG
AAGGCGTATTGGTTGAGTACAAAGGCTCTGAAGACGTAGCAGCAAAATCGGTATGCATA
TTGTTGCCGCTAAACCAATGCGTAAGCGAAGCCGAAGTAGATGCCGAAACCGTTGAAA
AAGAAGCCACATCTACACCGAGCAAGCCATCGCTTCCGGCAAACTGCCGACATCGCCG
CTAAATGGTTGAAGGCGCATCCGTAATTTCTGGCTGAAATCACTCTGAACGGCCAAG
CATTCGTGATGAACCCGATCAAATGTTGCCCAATTTCTCTAAAGAAAACGGCACTGAAG
TGATCAGCTTCGTACGCTACAAAGTAGGCGATGGTATTGAGAAAAAGCCGTCGATTACG
CAGCCGAAGTTGCTGCCGCTGCTAAAGTGAAGGCACTTATGAAAAAGAAAGCACCTGGA
TTCCAAACGAATCAGGGTGCTTTTTTTTGAGAAAACCGTTTACGGTACCTATTTTAAGAC
GACCGAATATTAGACCGCTCTTAAACAAAACAATAATAAACCGACACACCTATCATT
ATATTCGACCGTTGGAATTCAGACGGCCAACTCCGACCGACGACATTCAAGAAAGCA
AGGTATCCATGACAGCAAAATCAATAACAACGCGTATTACTGAAACTCTCCGGCGAAT
CCCTGATGGGTTCCGATCGTTCCGCATCAATCACGATACCATCGTTCAAACCTGTCGGCG
AAATTGCCGAAGTCGTTAAATGGGCGTGCAAGTCGGTATTGTTGTCGGCGGGCGCAATA
TTTTCCGGGGCTATCCGGCCAAAGCAGGCGCATGGATCGCGCCACCGCCGACTACATGG
GCATGATGGCGACCGTGATGAACGCGTTGGCACTCAAAGACGCATTGAACTTTAGGCA
TCAAAGCGCGGTACAATCCGCACTGTCTATGCAGCAAACTCGCTGAAACCTACGCCCGCC
CCAAAGCCATCAAATTTGGAAGAAGGCAAGTCTGATTTTTGCGCGCGGTACCGGTA
ACCCGTTCTTACGACCGACACTGCCGCGCATTTGCGCGGTGCGGAAATGAACTGCGACG
TGATGCTCAAAGCCACCAACGTCGACGGTGTGTACACCGCAGACCCGAAAAAGACCCGT
CCGCCACGCGCTACGAACCATTAATTTTACGAAGCCTTGTGAAAAACCTCAAAGTCA
TGGACCGGACCGCTTTCGCCCTTTCGCCGCAACGCAAGCTCAATATTGTCGTCTTCGGCA
TCGCCAAAGAAGGCTCGCTCAAACGCGTCATTACCGCGAAGACGAGGGAACGCTGGTTT
ACTGCTGATTGACCATAGTGTGCGGAGATATAGTCGCATATGGGCTTCAGACAGCCATT
ATTATATGGAGATTATAGTGGAATTAATTTAAACAGTACGGCGTTGCTCGCTTCGCCG
TACTGGTTTAAATTTAATCCACTATATTTACAATTTTGATACAATTTGTTTTTCATCAA
GGAGAAAATCTATGCAAGCACGGCTGCTGATACCTATTCTTTTTTTCAGTTTTTATTTAT
CCGCTGCGGGACACTGACAGGTATTCATCGCATGGCGGAGGTAAACGCTTTGCGGTG
AACAAGAACTTTGGCCCTTCTGCCAGAGCTGCCGTTAAAGACATGGATTTACAGGCAT
TACACGGACGAAAGTTGCAATTGTACATTGCCACTATGGGCGACCAAGGTTACAGGAGTT
TGACAGGGGGTTCGCTACTCCATTGATGCACTGATTCTGGCGAATACATAAACAGCCCT
GCCGTCGTAACGATTACCTATCCACGTTACGAAACACCGCTGAAACACATCAGG
GGTTTGACAGGTTTAAACACTTCTTTATCTACACTTAATGCCCTGCACTCTCTCGCACC
CAATCAGACGGTAGCGGAAGTAAAGCAGTCTGGGCTTAAATATTGGCGGGATGGGGGAT
TATCGAAATGAAACTTTGACACTAACCCGCGGACACTGCCTTTCTTCCACTTGGTA
CAGACCGTATTTTCTCGCGGGCATAGACGTTGTTTCTCTGCCAATGCCGATACAGAT
GTGTTTTATTAACATCGAGTATTCCGAACGATACGCAACAGAACCGAAATGCACCTATAC
AATGCCGAAACACTGAAAGCCCAACAAAACCTGGAATATTTTCGAGTAGACAGAACCAAT

Appendix A

-495-

AAAAAATTGCTCATCAAAACCAAAACCAATGCGTTTGAAGTGCCTATAAAGAAAATTAC
GCATTGTGGATGGGGCCGTATAAAGTAAGCAAAGGAATTAACCGACGGAAGGATTATG
GTCGATTTCCTCCGATATCCGACCATACGGCAATCATACGGGTAACCTCCGCCCATCCGTA
GAGGCTGATAACAGTCATGAGGGTATGGATACAGCGATGAAGTAGTGCGACAACATAGA
CAAGGACAACCTTGATTACACTACCATAACCGCTTGCTACCAAGGAAAACAAAATGAAT
TTGCCTATTCAAAAATTCATGATGCTGTTTGCAGCAGCAATATCGTTGCTGCAAAATCCCC
ATAGTCATGCGAACGGTTTGGATGCCCGTTTGC GCGATGATATGCAGGCAAAACACTAC
GAACCGGGTGGTAAATACCATCTGTTTGGTAATGCTCGCGCAGTGTAAAAAGCGGGTT
TACGCCCTCCAGACATTTGATGCAACTGCGGTGAGTCTGTACTGCTATTACACACGAA
CGGACAGGGTTGAAGGTGTTATCGGTTATGAAACCCATTTTTCAGGGCACGGACATGAA
GTACACAGTCCGTTTCGATCATCATGATTCAAAAAGCACTTCTGATTTCAGCGCGGGTGA
GACGGCGGGTTTTACTGTTTACCAACTTCATCGAACAGGGTCGGAATCCATCCGGAGGAT
GGATATGACGGGCGCAAGGCAGCGATTATCCGCCCCCCGAGGAGCAAGGGATATATAC
AGCTATTATGTCACAGAACTTCAACAAAACAAAGACTAATATTGTCCCTCAAGCCCCA
TTTTTCAGACCGTTGGCTAAAAGAAAATGCCGGTGCCGCTCTGGTTTTTTTCAGCCGTGCG
GATGAAGCAGGAAAACCTGATATGGGAAAGCGACCCCAATAAAAATTTGGTGGGCTAACCGT
ATGGATGATGTTTCGCGGCATCGTCCAAGTGCGGTTAATCCTTTTTTAATGGGTTTTCAA
GGAGTAGGGATTGGGGCAATTACAGACAGTGCAGTAAGCCCGGTACAGATACAGCCGCG
CAGCAGACTCTACAGGTATTAATGATTTAGGAAAATTAAGTCCGGAAGCACAACCTTGCT
GCCGCGAGCCTATTACAGGACAGTGTCTTTGCGGTAAAAGACGGTATCAACTCTGCCAAA
CAATGGGCTGATGCCATTCGCAATATAACAGCTACTGCCCAAACTGCCCTTCCGCAGCA
GAGGCCGCGAGGTACGGTTTGGAGAGGTAAAAAGTGAACCTTAACCCGACTAAATGGGAT
TGGGTTAAAAATACCGGTTATAAAAAACCTGCTGCCCGCCATATGCAGACTTTAGATGGG
GAGATGGCAGGTGGGAATAAACCTATTAAATCTTTACCAACAGTGCCGCTGAAAAAGA
AAACAAAATTTTGAGAAGTTTAAATAGTAAGTGGAGTTCAGCAAGTTTGTATCAGTGCAC
AAAACACTAACTCCCAATGCACCTGGTATTTAAGTCTGATAAAGTTAAACTCGATAC
ACTAGTTTAGATGGAAAATTACAATTATAAAAGATAACGAAAACAACCTATTTAGAAATC
CATGATAATTCACGAAACAGTATCTTGATTCAAATGGTAATGCTGTGAAAACCGGTAAT
TTACAAGGTAAGCAAGCAAAAGATTATTTACAACAACAACCTCATATCAGGAACCTTAGAC
AAATGAATGAACACAACCTGTTAATTTCTGTTTTAAAGACAATGTTTCAATTAGTGAAT
ATACTGAAATGGTTGATTGGGCTTATGAAAACATTCAATCTGAAACAGTTGTAGAAATTA
CGGAAAATCAAAATATTGGAATATCAAAATCGTGGATTATGGGGGCTTGTCTGAAATTA
CCGATAATTGGTTATTTGGACCAAGTGAGGGGGATTGGCTAATAGATAAGGAAAGTATTT
TGGCTGTAAAGAAAATTAACAAATTCAGATTTTTCTACAGAGCCCTTAGTGAAAAATA
TTATTATGTAATCTGAAATATGCTATATAAGAAATGAAAAACAGTAATTTTTTCATTTTTGAA
ACTAATCTAATTTTTTAGCAGCCGTAGGTGCGATTCTCGAATCCGATATTTTCCAACAGCG
GCATTTTCGGAACAGATAGATGCGTCAAAATATTTTGTGCGGATACAAATATCCGACCTACA
TCTCTGCGCAGCAAACTTTACAAGATATTAATGAATTAGGAAATTTAAGTCCGGAAGCAC
AACTTGCTGCCGCGAGCCTATTACAGGACAGTGTCTTTGCGGTAAAAGACGGCATCAATT
CCGCCAGACAATGGGCTGATGCCATCCGAATATAACAGCAACAGCCCAAACTGCCCTTG
CCGTAGCAGAGGCCGCAACTACGGTTTGGGGCGGTAAAAAGTAGAACTTAACCCGACCA
AATGGGATTGGGTTAGAAATATCCGGCTATAAACACCTGCTGTTTCGACCATGCATACTT
TGGATGGGGAATGGCCGTTGGGAATAGACCGCCTAAATCTATAACGTCCAACAGCAAAG
CAGATGCTTCCACACAACCGTCTTTACAAGCGCAACTAATTGGAGAACAAATAGTAGTG
GGCATGCTTATAACAAGCAATGTCATAAGACAACAAGAATTTACGGATTTAATATCAATT
CACCAGCAGATTTTGCTCGGCATATTGAAAATATTGTTAGCCATCCAACAAATATGAAAG
AGTTACCTCGCGGTAGAACTGCGTATTGGGATGATAAAACAGGGACAATAGTTATCCGAG
ATAAAAATCTGACGATGGAGGTACAGCATTTAGACCAACATCAGGTAAAAAATATTATG
ATGATTTATAGGAAAACAGCATGAATATATCTATCCATAAATAATCAAACTCAACTATTT
CACTAATCTAAGATGAAGTTTGTGTTTACGAGCTATCTTGAATGAGATATATGCGGGCG
TATGTGTAGATTCAAGAGAATTTGAAAATGTATCTGGTGTAGAAAACATGAAGTAGATA
ATTTACAACAACAGTTTGTGCGAATTTATAAAAAATGACAACCTTAACAACCCAAATTTT
TGTCAGAGCCTAGTGCAAATTACAACATGATTTCTATTGTAGCCGAAATGAAAGAAAAA
ATCATGGGTTGGCGACAGGGTTGATGTTGTTAATATGCCTGATGGAGCACCTACTAGTAT
GGATAACACGCTATTATGGCAGCAGTGAAGCAGGAGTAAAAGTGAAGCGAATGTTCA
TAATTTTAATGACCGATTATCATCAAAAGAGAGAATCAGGTTTAAGCATGATGGTATTGA
GCCTCAAACTTGGGGAGAGCTATCCAGCTACGAATTAGAAAGCAAGAAACACAAAAGG
AGTTCAGAAAGGTGGAGCAAAAGATTTCTAACGGAAGTATTTATGATGTAAAGGTACT
TAGGAAATGATAAAACAAAATAGTTTGTTCGGTATCCTGAAGCAATGCTTCTTAAAGGA
TTTAAATATCCGCAAGTTATTTAAATTAGCTCAATCCACTCATGCCATTAACCTACGAT
GAACAATATTCTTTCTTGGTGGTTTGAATGCGAAGCAATATATCAGAAGTAATT
GACATTTATTTTGAATAACTGGCATTTCCAACCTATTACCTTTTGTAGAAACCAAGAG
TGGGCTGCTGTTTTGATATTTACAGATAAATCAGGTAATCCTAAAATTATAGTAGTTAAT
TTAGATAATACAAAATATTACGAGACTTTTGAATTTTGTACTTGGCTAAAAGAAAGCT
GAAAATGATGGTTGGTAGCAACCGTAGGTGCGATTCTCGAATCCGACATTTTCAACAGC
GGCATTTTCGGAACAGTACAGCGCTCAAAATATTTTGTGCGGATACAAATATCCGACCTAC
ATCTCTGCGCAGCAAACTTTACAAGATATTAATGAATTAGGAAATTTAAGTCCGGAAGCA
CAACTTGCTGCCGCGAGCCTATTACAGGACAGTGTCTTTGCGGTAAAAGACGGCATTAAT
TCCGCCAGACAATGGGCTGATGCCATCCGAATATAACTGCAACAGCCCAAACTGCCCTT
TCCGTAGCAGAAGCCGCAACTACGGTTTGGGGCGGTAAAAAGTAAACCTTAACCCGACC
AAATGGGATTGGGTTAAAATACCGGCTATAAACACCTGCTGCCCGCCCTATGCAGACT
TTAGATGGGAGATGGCAGGTGGGAATAAGCCACCAAAACCAAGTACGCAGCAACACCCT
ACACACTCTGATAACAATATCGGCTTACCTGCCTCATATGTTAAACCTGATACATCTATT
TCTCCGACAGGAACAATTTCAAGACCGCATCAGATGGACAAAGTCCAAGTTTCTACTGAG
AAATCTTTAAATGGACATTTCAAAGCTCATGGAAAAGAAATTTGGCGATATAACCATTGAA

Appendix A

-496-

GACTACCAAAAAATGGCGTCTGATTGTTTATCAAAACAGACATCGGACAAGATATTAGGT
TATCAGACGGAACATAGACGAGTGGCGTATGATATCAATAACAATATCTATGTTTTGGCC
AATCCAAAAACATTCAAAATCAAAACAATGTTTAAACCAAACCTTAGGAAAGAAGTATTAT
GATGGAGAATTCCAAAAAGACATGGGAAATGACGGAGAATATGGCTACATTGTCTGT
TTGGCGAACTGAAGTTATGGACTATGATATCTGTGACGTTTGTGAGTGGCAAAATACAGG
AGAACTAATATAGATGGTGGCCCTAATGAAATGACACTTGGCGAGGCGAAAGAAGCTTA
CGCAAAAGGCTTACCAATCAGATAAATAAGCACCTAGAGAATCAATGATGACGGAATCC
CATGGTTACCTATCAAAATAATTTACCTGTTAAAAATCATAAATGATATTATTATGCAACC
CAGTTAGTCGAAGATTGGTTTTAGGAAAAATAAAATTGTTGATTTTTTAAATCATAT
AACAAATTTTATGTTGGCTTGGTTTGTATGAGTTGCCTCAATCTGAGAAAAATAAATTC
CTAAGCTATCTTAAATATATTAAGTATTCATAAAGAAATACAAGATGAACTGTGAATAGG
GTTTATACCGATTGAAAAATAGTAGATAGAGATTAAATGTTAAATGAAATTTTGAAT
TTATTCCGAGACAAGGGGAATCTTTGATAGGAATTGGAATTAGAGAAGCCGATTACCCGT
CCCTATTGCAATAGATATATTAAATTTATTATCAATGAGAGAATACTTGTATTGGGGG
AGATATTATATCAAGAAAGATAATTATTTTATCAACATATGATAATTGGTATTACGA
GGGAAGTAATTTATTTAACAGTATCGACAAGCAATGCATTATTTATCTCAATAAAATT
AGAGAATGCATACGTATCTTTGTGTTGAAATTTATCTAACAAAGGAAGCACAAGAATAG
ATTTATAGTAAAAACATCAAGATGTTGAAATGCTGGGTTTAAATCCAACCTACACTGACC
GGCTCAGATACAGCCGCTCAGCAGACTCTACAAGGTATTAAATGATTAGGAAATTTAAGT
CCGGAAGCACAACCTTGTCTCCGCGAGCCTATTACAGGACAGTGTCTTTGCGGTAAAAAAC
GGCATTAAATCCGCCAGACAATGGGCTGATGCCCATCCGAATATAACTGCAACAGCCCAA
ACTGCCCTTTCCGTAGCAGAGGCCGAGGTACGGTTTGGCGCGGTAAAAAAGTAGAACTT
AACCCGACTAAATGGGATTTGGGTTAAAAATACCGGCTATAAAAAACCTGTGCCCGCCCT
ATGCAGACTGTAGACGGGGAATGGCTGGGGGAACAAATCATTAAAAATAGGGACACAA
TCTGTTGAAAAATCAACCCGTCGTACAATACCTAAATAATTAAAGGAACAATTAGCAATG
GAAGAAGTTAAGGCAAAACCCACAGGGCAAACTCCTGCGAGAATACCTCCTATGTCCGAT
ACTAAAAATGGTTGGTTAGCAAAAGACGGTTGGGTTAAGCGTGTCAAACCGTAACAAAA
ATTGAAATACATACATTGAAACTCAAGAACCGGTGAGAAAAACAGATTTTAAGTTTAA
GATTAGTCATGTTTTTAGATGATGTAATGTTTTTTTAGATGATTAAATGTTTTTTTAG
ATGATTTAAATACATAATCCAATCACTGACGAATGGTATATGTCCAATTTTGGCGATAAAC
ATATTAATTTTTGGAAGTTACGAAGCCTTTGATATTCTAAACAATTTGTTGATTACA
TGATTGAAGAATATGATGAAAAATCAGAATATGAAATCATGGAAATATTGAGACAATTAA
AATATCAAGCAGATACCAACGAAAAATTTTATACAAATACACAGAAACAGAAAAATTGTAG
AATTATATAAACAAGAAATTAGTCAGGATATTTTAAATGAAATCTTTAGATAAACTATCA
ATATAGAGGAAATCCTTTGGAATAAATAAATGATAATCGAACACAATGGAATATACAT
AAAAATAGCCAGAATGACTGGAATAAATAAATTTTTTAGAAATAATCCTATCAGATATT
CATGAAAACATAAAAAATCAAAACCTTAACATATAAAGTAAAGGAGAGAATGTTATAAAT
ATCCTTCTGAGGAAGTTAGTTTTTATGTAACAAGGTGTTGATTAAATTTATGAAAAA
TATAACCGAAATTCCTTTATCTCCGAAATTTCTTTTTGCCAATCAGATAGCCGGCCTTCA
AGTATCTACGCTTTTCTTACATTTCACTTGTCTGAAGATATTATTAATAATGAATCCCA
TCCAACACCCGACTGGCTAATAGCAGGTATGAACCGTGTATTATCATATCAATATAAGA
TTAATTACGGCAGAATTGATGAAATTAGACAAAACTTATCGTAAGATTTTATTATAGAC
AGAGAAGTAACGTATGATGGCAAGAAGATATGGAACAGCACGAACAGAACTACTCCA
GGAGGATATGCTTCATCTCTGGTAGTTTGACAGATTTGACCGCTTCATAAACTTAGAACA
TTAATTAAATGATGATAATGTTTATGATGTTGTTCTAAGGATAGCAAAAGCAAAATCAGA
AGGAACATGAATGGCTATTATGACTTAAACGAAATAGCCGTAGGTTCGGATTCTCGAATC
CGACATTTTCCAACAGCGGCATTTTCGGAACGATAGATGCGTCAATATTTTTGTCCGAT
ACAAATATCCGACCTACATCTCTGCGCAGCAACTTTACAAGGTATTATGATTATTAGGAA
ATTTAAGTCCGAAGACACAACTTGTCTGCCGCAAGCGCATTTATAGGACAGTACTTTTGGCG
TAAAGACGGTATCAATTCGCCAGACAATGGGCTGATGCCCATCCGAATATAACTGCAA
CAGCCCAAACTGCCCTGCGGTAGCAGAGGCCGAGGTACGGTTTGGAGAGGTAAAAAAG
TAGAACTTAACCCGACCAATAGGATTGGGTTAAAAATAACGGCTATAAAACACCTGCTG
CCCGCCCTATGCAGACGTTGGACGGTGAGATGGCAGGAGGAAACAAGCCAGTTGTTAAAT
CTATCAGACCAACTACGCGAGATGAATTACGTCAAGCATTGCAAGAACAAGTTTTAGAC
GTACTGTTTCAGATGCGGCTCAATATGAAACATGGAAAGTCTGATGGCGTGAAAAATAG
ATATTCGTCCAAATGGAGAGGTTATAAGAACCCAAAGAGTGCCGGAACCGATGGTGTAC
AGGGAATAATCCGCAACGACAAGATTATGAAGCAATCCATTGCCAAATAATCATCATC
ATTCTGGATATTTTGTCAAATGAAAAAATAATTTTTTACCAATGTAAGCCTTTATGAAAT
AATCTTTCCGATAATGGAATAACCCCTTACATTATCTTTACAGATACAATTGAAGGTAA
TTATTTCCGATATATCAATGCAGTAATATTTTGAATTTTAAATTAGATACAATAATTT
CGTAGATTATAGGATAAGGAAGATAGCTTGTTCCTTGTATATACCCGAAATAGAGCT
ATATAAATACCAATTTTATAGTGAATTTATTTATGATGATAGGATATTATATAAATAATC
TGCTGAAACAATTAATTTTGAAGCACTGGGAAAAATAGTAAGTGTCTTTCCAGCAGCCGTA
GCAACTGTATTTTACCCGACGGGTAAAAATACAGTTGTACATCTCTGCGCAGCAGAC
TCTACAAGGTATTAAATTTAGGAAAAATTAAGCCCGGAAGCACAACCTGCTGCCGCGAG
CATATTACAGGACAGTGTCTTTTGGGTAAAGACGGCATCAATTCGCCGAGACAATGGGC
TGATGCCCATCCGAATATACAGCAACAGCCCAAATGCGCTTGGCGTAGCAGAGGCCGC
AGGTACGGTTTGGAGAGGTAAAAAAGTAGAACTTAACCCGACCAATGGGATTGGGTTAA
AAATACCGCTATAAAAAACCTGCTGTTTCGCCATATGCAGACTAAGCGTTAGGTACGGT
AGATGAAATTTGGGATACAGTACAGCAGGTGGGAAACAGGCTAGCGGACAAAAAACAG
CGGTGGTAACTCTGCGATTGATAGCGACCCCTATAGCCGAGTAGTGTGGCAGCTCGCAT
AGAAGCCGGTAAGCGCGAGTGATTACAAATCAAGACATTTTGAGCAATACTACTCA
AAGGAGTAAAAAAGGTCCCGCTGTTTCAATGATGATAAAGTGGGGGATTACAATGACGC
ACTAAATGATTTTAAATAGTCTGAATGTTTCAAAATGTACAACACGCTCCTAATGGAACGAT
AACGGCAATTTACCTGATGGCGTGCGGTTAATGCTCGTAATGATAGTAGTGGTGGAGA

Appendix A

-497-

ACCAACACTTGAATAACAATTAGTAATAACCGAAAAATAAAATCAGATATGGAAATAC
ACGATAAAATTATGAAATTAAGGCTTAGATTTCCCAACTGGCTATTTCTATTTTGATAA
TGCAGCAATAAACTCTGTATAAAGTAGAAGTTATAGCAGTTGGTTATAGAAATACGGATAA
AACCATAAAAATTTTATTTGAAGATGTTATTCATTTTAGGGTTGTTGATGAATCGTATTT
TATAGATACTTTTATGGATTTAATTTTCGGAAGATGCAGATAGAGCTTTGCTTCATGAAAA
TGGTGGTCAATCTTTTTTGAACCTCTTGATGAGTGTTATGCGGAATGGATATTGAAAGA
AAGTTATTTTCCTTTGAATAGAGAAATCTTTAAATACATATTTTTATGTTTGAGCAAAC
ATTATAGAAATTAATTTGTTCTAGTGCAACGTATTCAATTATTGAGGGCTAGCGTAAGAT
GAGTAATAAGTTGCCTATCTTTCTTTTCAGGCAGCCTGAAAAATAAACTACCCAAGTTGAT
GGTGATCTGTATCAGTGAAGGGAAATTTTGTGATGGTAAATTTTCGCTTGGTACGGCA
ACAATGAAATCATTTTAAATTGAGCTAGAAATGAACCTAGAAAAATTATGAAACATTTTA
ATAAAATTACTTTTTTATCATAACAACCTTAGTAAATGAATATCTTATTTTATTGAAAT
AAAAATTATTTTAAATAGTATCTCGAACGAAACGAGTAAGGGCTTTTTTTTCACTATA
GAAAAACCATTAATTTTCTAAGCAAAAAAACTTATTTTGAGTTTAAATTTTAAATATTTA
CACTCAGGGAAAGAACGCTTTGGTTCTGTTTATGTGCTGGATAAATACTAATTTAATGGAA
TTTGAGGGGGTTTTTTTTAACGACCTGCTCCCTGATAATATGATAATAAATAACTTTTTT
GAAATAAATGATTAAACGATACCAATAAAAAATTTGGTGGGGTAACCGTATGGATGATATT
CGCGGCATCATCCAAGGTGCGGTTAATCCTTTAATTTACAAGGTAAGCAAGCAAAAGATT
ATTTACACAACAACCTCATATCAGGAACCTAGACAAATGAATGAACACAACCTGTTAAT
TTTCTGTTTAAAGACAATGTTTCAATTAGTGAATATACTGAAATGATTGATTGGGCTTA
TAAAAACATTCATCTGAACAGTGTGAGAAATTACGGAAAAATCAAATTATTGAATATCA
AAATCGTGGATTATGGAGACTTGTCTGAAATTACCGATAAATGGTTATTTGGACCAAG
TGAGGGGGGATTGGCTAATAGATAAGGAAAGTATTTTGGCTGTAAGAAAAAATTACAAAA
TTCAGATTTTTCACAGAGCCCTTAGTGAAAAATATTATTCATGTACTTGAATATGCTAT
AAAAAATGAAAAAACAGTAATTTTTCATTTTGGAGACTAATCCAATTTTATAGTAATTTG
ATGCAGAGCAAGCAGCATTAGATGCCGCAACATGGGGAGAGCTATTCAATTTAGAATT
AAAAACAATTTGAAATGAACAGTACACCAACCAATTTGGTCTACCCAGTTTCTAATGGT
AGTATTTATGATCCTTAAGGTAACGAAATGATTATTCAAAATGAATTTAATTTATATCCTA
GTAATATGCTTCTGAAAGGTTTTGTATCTGAAAGTATGTTCTGATCTCTAACGATA
CATCTTTAATACCTTATATTACGCCACATAATTTTCACTGGTGGTTGAGAAATTATGGAA
CAGAAGGGGCAGAAGTAGCTTATATATTAGAAATCTATCTGCTGATTAAATCTTA
TCCCATTCGCTAGTAAATGGAGAAATGGGAAGCTTATTTTGTAGGTAATGATGAACAGGAA
ATTCTAGGGTTATGTCATTAATTTAGATAATATAGAAAACCATGAATTTTTTAATAGTT
TTGAAGATTGGCTTGAATTAGCAATTAAGGATACTTGGTAAGCAGCTATCTATAAGAGA
TGAGGCTGCCCTGCACTCAGTACAGGATAAACTCGATTACTAATTTGTTTAAATGGAACA
AGAACTTTTATTTCACTGTTGTTAAACGCCATTTCGCACTCCTTTAATACAGCTCAAAA
TGCGCTTTGGGAATGCCGTTAAACTTGCCTAAATGACGTTTTGCTTGATTCCAAAAGTTC
TCAGTTCCATTAATATAGTTTGTGCTTCGGCAAAATGTGTGCTGTGATTGATACGGAAA
TGGCTAAATTCGCGCGCATCCAATACATCATAGCCACGATAACAAAATGAGTTTATTTTG
TTTATACCGTCTTAGACGACTTTCTCTCATAGGGATAATCTAATTTAATTTGAATTTCC
CTAGTGATCTAGGGCAGCCCTAAATTAATAAAGCAGCACAACTCCTTTTGCCGATGTTT
CGGACTGTCAAACTGACTTTCTCTCATGCCACATCTCCATCAAGGTACGGATAACCCGCTC
CGCTTACCGTTGGTCTGCGGACAAGCAATCGGGCAAGCCTCCAACCAATCCCATTATC
ATAACAAGCTGCACCGAAGCATGTTGGACGGCTCTTTATATTACCTATCATTTGTACAGAG
TAAACGTACTCAATCAGTACAGTACAAGCAGGGGTGCGACAGATGTTGCTGAGAACTTGGCA
GCACTGTCTGCGGTTTTGTCCGGCAAAATGGCAGAGTATAAAAATCGTCAATAGCGACAA
ACAGGTAATCTCGTTTATCAGCGGCCCTTCTGTCTTTGAGCAACAACAACCGATCGGTAT
CAGGATGCACAAAACCTCCCGGGACAACCTGCCCTTTACGGCTTTAAGTGCACGGTAAA
TAGTGACCGCGCTGACTTAGTGGCAGCATACTGGGAGGTTGAGTGTTTTTGTATATTTT
TTATTTTGGTATTCCTTAGAAATACTGTAAACAACGCTACCGGACGGCCTGCAGGGCTT
CGCGCACGCTTGCTTTGAGTTCTGCGCCGAAGCGTCTGCCCAAGATTCTGCCGAAATCGT
CCTTCGGAGTGTAATCCACCACATCGGGGGCTTTGACCACGCTCTCGCGCCAGCTGTAAA
TATTGCCGAGTCCGCTCCACCAGCCGACTTTCAGCGCATCCGCGCTGTGTACACGCGAC
CGCTGAACACGTCGGGATATTGTCCGAATTTGAGCGCGCGCCGCTCCGGTTTTGACGG
CTTTGATGAATCGCGGTGATGCGCGTCAGCATTTCTTCCAGATTTTGTACTGTTTCGG
GCGTTTTCGGGCGAAAACGGATCGCCCATGCTTTGTTGCTGCTGCAATTTTAACCTGTC
GTTTCACGCCGATTTTTTCCATCAGGCCGGTTCGCTCGAAACTGCTGCCGATAACGCCGA
TGCTGCCGACGATGCTGGACGGGTTCGGCATAGATTTTGTCCGCGCGCGCGCGATGTAGT
AGCAGCCGGACGCGCACATATCTTCCGCCACGAGATAAACGGGAATGCCGGGGTGTGCG
CCTTCAGACGGCTATTTCTTCAAAGCGGTGTTGGACACGACGGGCAACCGCGGGGC
TGTTGGCGCGGATGACGATGGCTTTTGCTTGCCTGCGGGTTTTGTAGCGCGCTCCATACCGT
CTTTGAGTTTTTTGACCTGGTCTTCTACACCGTTTCCCGATTTCGCGGTACAGATTGACGA
CTGCGGTATGCGGCGTGTGCTCCGCCAACTGCAATGCGGCTTCGTCTTTTCGGAAATGC
CTGCAATCAGGGCAACCAAGATCAGGGTGTGACGGCGCGCCAGATGTTTTCCACATCC
GCTCCCTGCGCTGTCTGATAGCGGACAACAGCACTTCGCGCATGATGTGCGCTCC
ATAAGGTTTTCCCGCATTTTTTGTCTTCGGGTGCTTCGTTTTCTCTGATTTCGGTATT
GCATGGTTTTCTTAAATATTGTCCGATTGGGGCAACGGTTTTAGTTTACCCGATTTT
TCAGCTCTGCTCCCAATCCGTCCAAGCTGTGCAACACTTCGCGCCACGCGCGTCCAAAA
GGTTGACGGCTTCTCTTCGGCTTGTATGCCGAACCTCAATGTGCGGTTTGAACCTGCGTGC
CGTCTGAATGCGTCCAACCGACGCTGGGCAGGCTGTACGAACGCACGCCGGGATAAGTTT
GCTCGATATGCTCCATAAGCGGCTAATGCGCGATTTCGGGTGCTCAAACCATACACGC
TGCGGCTGCGCGCTTCGGTTTGGTTGAAGCGGTGCGCGTAATAAGTTTCCAATACCCATT
CCGCCATCGGGTGCCTCATCAGGAAAGCCGGGGAAGAAATAATGCTCGCGGATAGAAA
ATCCGGCGATGTTGTTAAACGGATTGGGCACCAATTCGCGCCTTCGGGAAAAATCTGCCA
TTTTACGGCGTTGGCGGTTCGGCGCAATCAAGCGGCTCGCCGCTTCTGGGTTATGC

Appendix A

-498-

CTTCGATAAACTTGGCGGCTTCAGAAATGGCGGACGACGGGCAAATCCAAAGCAGCGGCTG
CGGCTTGGCGGGTGTGGTCTGCGGGCTGGCGCCGATACCGCCGGTAACGAAAGTTGGCA
TGCCGCTTGAAAAGCTGCGGGCGAGTTGCCCTGACCAGCAAATCGGGTTCTGTCGGGCGAGT
ATTGCACTGATTGAGCTTCAGCCCTTTGGATTTCAGCAGGGATTGAAAAAGGCGAAAT
GCTTGTCTTGGCTGCTGCCGTGTAAGATTTCTGTCGCCGATGATGATGAGGTTGAACGCGT
TCATAGATGGTTTTCTTTACCGATGCCGTCTGAAAATGTTCGATGGTGCTGTGATTTGTTC
CTCTCCCGTGGGAGAGGGTTAGGGAGAGGGTCGAGCTTGCGTTTTTCAGGCAGCGTTTGC
TTAAGGCTGTCTGTGTACCTCTCCCCAACCTCCCCCGCAGGGGAGGAGTCAGGTT
GAGGATGGCGTAAGACCGTCTGAAAAGATTTTCAGCGAAACGGGCAAAGCTTCTTTTCA
GACAGCCTTAACGGCTGACAAATGGGTATATTTATAAGATAATGAACCTCTTTTCAAG
TCCGAAGGATACCTTATGAGCCAAAACCATACCATTTCTGCAATCCCTCCCGCTCGGTCA
GAAAGTCGGCATCGCCTTCTCCGGCGGTCTTGATACCTCTGCCGCGCTGTTGTGGATGAA
ACTCAAAGGCGCGCTGCCCTTATGCTTACCTGCCAACTCGGCCAGCCGACGAAAGACGA
CTACAACGCCATTCCCAAAAGCGATGGAATACGGTGCGGAAACGCCCGCTTAATCGA
CTGCCGCGCGCAGTTGGCACACGAAGGCATCGCCGCCATCCAATGCGGCGCGTTTACGCT
TTCCACCGGCGGATCGCCTATTTCAACACCACGCCCTCTGGGCGCGCGCTAACCGGCAC
TATGCTTGTTCGCAATGAAAGAAGACGATGTGAATATTTGGGGCGACGGCAGCACCTA
CAAAGGCAACGACATCGAGCGTTTTCTACCGCTACGGTTTGCTCACCAATCCCGCGCTGAA
AATCTACAAACCTGGCTCGATCAGCAATTTATCGACGAACTCGGCGGCGCTCACGAAAT
GAGCGAATTTCTGATTGCCAACGGCTTCAACTACAAAATGTGGTGAAAAAGCCTACTC
CACCGATTCCCAATGTTTGGGTGCCACCCACGAAGCCAAAGACTTGAATTTTGAACCTC
GGGCATCAAAATCGTCAAAACCATTTATGGGCGTTGCTTTTGGGACGAAAACGTGGAAGT
CAGCCCCGGAAGAAGTCAGCGTACGCTTTGAAGAAGCGGTGCCGTTGCACTAAACGGCAA
AGAATACGCCGATCCCGTCGAACCTCTTCTCGAAGCCAACCGCATCGGCGGCGCCACGG
CTTGGGTATGAGCGACCAAACTGAAAACCGCATCATCGAAGCCAAATCGCGCGGCATCTA
CGAAGCCCCGGGTATGGCGTTGTTCCACATCGCCTACGAGCGTTTGGTCACCGGCATCCA
CAACGAAGACACCATCGAACAATACCGCATCAACGGCCTGCGCCTCGGCGCGCTGCTCTA
CCAAGGCGCTGTTTCGACAGCCAAAGCCCTGATGTTGCGCGAAACCGCAACAACGCTGGT
TGCCAAAGCCGTACCGGCGAAGTTACCTCGAAGTGGCGCGGCAACGACTACTCAAT
TCTGAACACCGAATCGCCCAACCTGACCTACCAACCTGAACGCTGAGTATGAAAAAGT
CGAAGACGCTGCGTTCACTCCGCTCGACCGCATCGGACAGTCACGATGCGCAACCTCGA
CATCACCGACACCCGCGTCAAACTGGGTATCTACTCGCAAAGCGGTTGCTCTCGCTGGG
CGAAGGTTGCGGTATGCGCGAGTTGGGCAATAAGCAATAAGGTTTGTGTTTTACATCAT
TAGCAACTTAAGGGTCTGCTGAAAAGATGATCCCTTATGTTAAAAGGAATCCTATGAAA
GAATACAAAGTCATCATTTATCAGGAAAGCCTGTTGTCCAGCCTGTTTTTCGGCGCGGCA
AAGGTCAACCCCATCAAAATCAGCGAGTTCTCTAATAAACAAACCCCGAAGGCTGGCGG
GTTGTAAACGATGAAAAAGATTTGCGCGCTGATGCTGCTGTTTTTCAAACGCGAGGCCATC
GTGCTCATTTTGGAGCGGGATCGTGTTTAAGCTCGGCGTTTATACCTGTCTCGGACTGTT
TGCCGGCTGGGTGCTGCTGATCGTGCAACTCTGGTTTTCTTTTCTCGAAGCGGAATT
GTTCTTCAAATCACACTGACTATGGCGGGCTGTTTGTATCATCTCTCGCGCCTTACT
GGTATGCGGTGAGTATTTTCCGAAAAGAAAATGAAAGACGACGGGTTTATCAACTGATG
CGGACTTGAACCGGACCCGCGACCCAAACATCACAATGCCGTCTGAACGCCCTCGCTTCA
GACGGCATCAACATCAATCTGCTCTTTTGGCGGCAACACGCGCAATCCGCCCTTTT
CCGCATCTGTGCGGCGATAGCTGTATTTCCCGCCACTTCTCGCGGCGCGGCGGCTAAA
ACTTTCCGGAACATCCCGCTGCCATTTTCCGTCCAAGTCCCTTAAAGCCGTTTCCAT
CGATGGCGGCTTGAATTTTGGCTACCCATATGCAAAATCATCGCCGCTGTGATAATGC
CGTCCACAGATTTGCTGCCGAATCGACTTTTGGCGCAACCTGCCCTGGTGGGTACG
GACGGCGTTTTCCGTATGAAATGCAGTACTTCCCGTTGTACACGGCGCGCGCGCAA
GCATTTCCGCTTTTGGCGGTTCGCTTGAACACGAAGGGCATACGATCCGCGGGCAATT
TTTCCGCGCGTAAAGTCAGATACCGGTAATTCCTTCCGGGCGGAAGATATTGCCGGAAT
GCCCCGTGAGGCTGACCGCTTCCCATCGACAATCAGCGTATCCGCTGATTGACGGGAA
TCAGCGGCATCTCGGCGAGCCGACCGCCTCGACCGTGCAGAACGCCATAATCGCGCAA
ATGAAGTGGGTTTAGGTTTATAAAAGATAATATATTGATTGATTCCCTTCATCTGCACAC
TATCGGCAACCAACCGACAAATTTATCATTTCTTCCCATCTTCTTGTAAATTAATTTT
TGCTGCAATCAATTTTCAAATCTGATTTTAGCTGTACTTCTCATCAAGAAAT
TATTGCCACTACAAGAATCGCCTTTACAGTGGGTCAACGTTATATTTGCGACGGCCCGT
CAATCAAAACGCCATTAGCCAAATCAACCTTCCAAAATGCTACCGCATTCGACAGGTG
CAGGTTTGAACGGGGATGGGATCTGAAGAACGGCGGCTTGATTGTTTCCGGCTTGAT
TTGCACCTTGGGCGAGCCGATTGCGGGCATTTTGGCCGCTGCCGACGGATCGTCCCCCT
GCATTCGCTCGCGCATTTGCCATATCCGTTGTTTGGCGGCTGAGACGATTCCCGG
CATCCGTTGCTGATTTTCCATATTTCCGGCAAGCATATTCGGATCCGGGGTGTGATTCTG
GTGTCGAATATCTGTACCGGCGGCATTTTGGCGCATATCATTTTGTGCCACCTCGTCTT
CATTTTGGGATTATCCGCTGTTACCGCACCGCCATTTGCCGTGATTTTCTTCCGAAACCG
CCGCCATATCTTACTGCTTGTGCGGATGGCGCGCCTGTCTTGAACCTGCTGTG
GCGCATCTTCTTGGCTCTGTCTCTTTTTCAGAAACAACAGGGGCGGAGGTTTGTACA
GCGTGTCCGCGCATCTGACATCGGGCGATCCGCCACCGCGCGCCCGCGAGGCTGAAAGGG
CAAAAATACAAGCCATTGGGATACGCTGCGTTTAAACATCATCATCTCTTCATCGTAT
TTCCTTTTGGTTTAAACCCCGCCACTTGGACATCCGTCCTTCCGGGCGGTGGAATCAGC
TTTATTTGGGAAGAGCGCAACCTTTCCAAATCAGGCGGACACATAGGGCTGTGCTTTATG
TGCCGCCCTGTGTGTTGAAACATATTTCAATAAATATTTTCCGCCGTATGCCATATAAAA
TTGTAAAAATATGCCGTCTGAACGCCAAACGGGCTTCAGACGGCATAGCTTGGTTTATTC
CGCCCGGTTCTCTGTCGGCCAAATCGGCGGACGCGGTAACAAAACGCTCGGTGGAAGA
GTTACGCGCAGTTTCCGCGCAATCTGAATCAGCGGATAATGAAGCCGACGGCAACAC
CTGCATGGCCACATCGTTATCGATACCGAACAGGCTGCACGCCAAAGGAATCAGCAGCAA
CGAGCCACCGGCCACACCGGATGCACCGCACGCGCTAACGGTAGCCACAGGCTCAGCAG

Appendix A

-499-

CAGGGCAGTGGCGAAGTCAACCGTAATGCCTTGCCTGTGCGCCGACGCATCGCCAAAAC
GGTAATGGTGATTGCCGCACCGGCCATATTGATGGTTGCACCCAATGGAATGGAGATGGA
GTAAGTGTCTTCGTGCAAAACCCAGCTTTTTCGCCAATGCCATGTTTACAGGGATATTGGC
GGCGAAGAACGGGTAAAGAAGGCATAAACGCCACTTTCACGCAGGCAGGTAAACACCAG
CGGAAAGGGTTGCGGCGGATTTTCCACCACACGATGGCGGGATTGACCGCCAGCGCGAT
AAACGCCATACAGCCCAACAGCACTGCAAGCAGCTTCGCGTACCCCGCCAGCGCGCGGAA
ACCCGCTCTCCGCGATTGTGGACGACACCAGCCGAAAATGCCAAAGGGGCAAAACGGAT
AATCCATTTACGACGGTGGAAACCGCTTCCGCCAAATCGGCAACGACCTGCCGCGTAAC
GTCCGAACCGTGATTCCGCAACGCCGCGCCCAAAACCAAGCCCAAGCCAAATGCCGAT
ATAGTTGGCATTTGGCAATCGCGTTAATCGGGTTGGCGACAGGTTTCATCAGCAGCGATTT
CAATACTTCCACAATGCCGGAAGCGCGCGCGGACACATCGCCCGCGCCCGCCAAAAC
AATGTGCGTCCGGAAAACCATACCGGCGATGACGGCGGTGAGGCTGCGGAAAACGTACC
GATGAGGTAAAGGACGATAATCGGCCTGATATGCGCCTTGTGCTTTTGGTGCTGCGC
GATTGTGGCGCCCAAAAATAATACCAAAACCGGCGGACCGCTTTGAGCGCACCGAC
AAACAGGCTGCCGAACAAGCCTGCCGCCAAGCCAGTTGCGGGGAAACCGAACCGATTAC
GATGCCCAACGCCAAACCGGCGGCAATCTGCCTGACCAGGCTGACGCGCCGATCGCATG
AAATAAGGATTTGCCGAACGCCATAATCTTCTCTTATGTTGTGATATGTTAAAAATGTT
GTATTTTAAAGAAAACCTATTCTCTGTGTTTTTTTTTATTTCGGCTGTATTTTATAG
TGGATTAAACAAAATCAGGACAAGGCGACGAAGCCGACAGTACAAACAGTACGGAAC
CGATTCACTTGGTGCTTACGACCTTAGAGAATCGTTCTCTTTGAGCTAAGCGGAGGCAA
CGCCGTACTGGTTTTGTTAATCCACTATAAGGTTGCGTTGATTGCCCCTATGCAGTAGT
GCGGACAGGCTTTGCTTTATCATTTGCGCGGACGCTTAAATTTATGAACGAAAAATAA
TTTATTTAATCTGCCTATTTTCCGACATATTCCGAAACGACGCTGTTTCCATATGC
GGATTAGAAACAAAATACCTTAAACAAGCAGATACATTTCGGCGGGCGGCAACCTCCG
AAATACCGGCGCGAGTATGCCGTCTGAAGCGTCCCGCCCGTCCGAACAGTGTAAATC
GAAAGCGCCACACCGATGCACGACACCCGTACCATGATGATCAAACCGACCGCCCTGCT
CCTGCCGGCTTTATTTTCTTTCCGACGCATACGCGCCTGCCGCGACCTTTCCGAAAA
CAAGGCGCGGGTTCCGATTGTTCAAAAACAAAAGCCCGACACCGAATCAGTCAATT
AAAACCCAAATTCGCCGTCTCATCGACACGACGAGTGAATCAAAGATATGGTCGA
AGAACACCTGCCGCTCATCACGACGACGAGGAAGAAGTATTGGACAAGGAACAGACGGG
CTTCTCGCCGAAGAAGCGCGGACAACGTTAAACGATGCTCCGACGCAAGGCTATTT
CAGCAGCAAAAGTCAGCCTGACGGAAAAAGACGGAGCTTATACGGTACACATCACACCGG
CCCGCGCACCAAAATCGCCAACTCGGCGTCCGCTCCTCGGCGACATCCTTTCAGACGG
CAACCTCGCCGAATACTACCGCAACGCGCTGGAAAACTGGCAGCAGCCGGTAGGCAGCGA
TTTCGATCAGGACAGTTGGGAAACAGCAAACTTCCGTCTCGGCGCGGTAAACGCGCAA
AGCCTACCCGCTTGCCAAGCTCGGCAATACGACGCGGCGCTCAACCCGATACCGCCAC
CGCCGATTTGAACGTCTGCTGGACAGCGGCCGCCCATCGCCTTCGGCGACTTTGAAAT
CACCGGCACACAGCGTTACCCGAACAAATCGTCTCCGCGCTTGCCTGTTCCAGCCCGG
TATGCCGTACGACCTCGACCTGCTGCTGACTTCCAACAGGCGCTCGAACAAAACGGGCA
TTATTCGGCGCGCTCGGTACAAGCCGACTTCGACCGCCTCCAAGGCGACCGCTCCCGT
CAAAGTCAGCGTAACCGAGGTCAAACGCCACAACTCGAAACCGGCATCCGCTCGATT
GGAATACGGTTTGGGCGGCAAAATCGCCTACGACTATTACAACCTCTTCAACAAAGGCTA
TATCGGTTGCGTCTGCTGGGATATGGACAAATACGAAACACGCTTGCCGCGGCATCAG
CCAGCCGCGCAACTATCGGGGCACTACTGGACAAGCAACGTTTCTTACAACCGTTTCGAC
CACCCAAAACCTCGAAAAACGCGCCTTCTCGGCGGCGTGGTATGTGCGGACCGCGC
GGGCATCGATGCCAGGCTGGGGGCGGAATTTCTCGCAGAAGGCGGAAATCCCGGCTC
GGCTGTGCGATTTGGGCAACAGCCACGCCACGATGCTGACCGCCTCTTGAAACGCCAGCT
GCTCAACAACGTGCTGCATCCGAAAACGGCCATTACCTCGACGGCAAAATCGGTACGAC
TTTGGGACATCTGCTCTCCTCACCAGCGCTGATCCGACCTTTCGCCGTGACGGTTATTT
CTTACGCGCCGAAAAACAAAACCTCGGCACGTTTATCATACGCGGACAAGCGGTTACAC
CGTTGCCGCGGACAATGCCGACGTTCTTTCAGGGCTGATGTTCCGACGCGCGCGCGCTC
TTCCGTGCGCGGTTACGAACTCGACAGCATCGGACTTGGCGCCCGAACGGATCGGTCT
GCCCCAACGCGCCTCTGGTGGGACGCTGGAATACCAACTGCCGTTTACGCGCACCTT
TTCCGGCGCGGTGTTCCACGATATGGGCGATGCCGCGGCCAATTTCAAACGTATGAAGCT
GAAACACGGTTCCGGACTGGGCGTGCGCTGGTTACGCCCCTTGCCTGTTTCTTTCGA
CATCGCCTACGGGCAACGCGATAAGAAAAATCCGCTGGCACATCAGCTTGGGAACGCGCTT
CTAAACCGATATGGCCACTTCAGACGGCATTCAGCAAAACATTTTGAAACAGACATTAT
GACCGATACCGCACCGACAGATACCGATCCGACCGAAAACGGCACGCGCAAAATGCCGTC
TGAACACCGCCCTACCCCGCGGCAAAAAACGCGCCCGTGTGTAAGCTGTGCGCGG
ACTGCTGTCTGTCTGATTTTGGCAGTATGTTTCTCGGCTGGCTGCGCGGTACGGAAGC
AGGTTTGCCTTCCGGCTGTACCAAAATCCGCTTGGTTGCGCGTAACATTTCTCTCCA
AAACCTCAAAGGCAGCTGCTCGACGGCTTCGACGGCGACAAGTGTGATAGAAACCGA
GGGGCAGACCTTAAATCAGCCGCTTCCGCTTCCGCTGGAACCGTCCGAACTGATGCG
CCGACGCTGCACATTACCGAAATTTCCGCGCGGACATCGCCATCGTTACCAACCGAC
TCCGCTTAAAGAAGAACGCGCGCGCTCAGCCTTCCCGACAGCATAGACCTGCCTGCCG
CGTCTATCTCGACCGCTTCGAGACGGGCAAAATCAGCATGGGCAAGCCCTTTGACAAACA
AACCGCTCTATCTCGAACGGCTGGATGCTTACATACCGTTACGACCGCAAGGACACCGCT
TGACCTGAAGGCCGCCGACACGCGTGGAGCAGTTCTGCGGGGCGGCGCTCGGTGCGCTT
GAAAAAACCGTTTGGCCTCGATACCGCAATTACACCAAGGCGGACTCGAAGGCAAAAC
CATACACAGTACGGCTCGGCTGAGCGGCAGCCTGAAGGATGTGCGCGCCGAACTGGCGAT
CGACGGCGGCAATATCCGCTCTCGGGAAAATCCGTCATCCACCGCTTTGCCGAATCATT
GGATAAAACATTTGAAGAAGTACTGGTCAAAGGTTCAACATCAATCCGGCGCGCTTCTG
GCTTCCCTGCCGATGCCGAGTGAATTTTCGACCTGACCGCATCCGCTCGTTTTCAGA
CGGCATCGCGTGAAGGTTGCTCGATTTGGAACACCAAGCGCGCTTTGCCGACCG
CAACGGCATCCCGTCCGTGAGTTTTCAGGCGCTTGTCTACCGGACGACGGCACGGT

Appendix A

-500-

GCATATCGGCAATACGTCGCCGCCCTGCTCGGACGGGGCGGCATCAGGCTGTGGGCAA
AATCGACACCGAAAAAGACATCCTCGATTAAATATAGGCATCAACTCCGTCGGCGCGGA
AGACGTAAGTCAAAACCGGTTCAAAGGCAGGTGGACGGCAGCATCGGCATCGGTGGCAC
GACCGCTCGCCCAAAATCTCTTGCAACTCGGCATCGGCACGGCGCGCACGGACGGCAG
CCTCGCCATTGCAAGCGACCCAGCAAACGGACAGCGGAAACTGGTGTGACACCGTCAA
CATCGCCGCGCGGCAAGGCAGCCTGACCGCGCAAGGCTATCTCGAGCTGTTAAAGACCG
CCTGCTCAAGCTGGACATCCGTTCCCGCGCATTCGACCCCTCGCGCATCGATCCGCAACT
TCCGGCAGGCAATATCAACGGCTCAATAAACCTTGCCGGCGAACTGGCAAAAGAGAAATT
CACAGGCAAAATCGGTTTACCCGGCAGCTTCAACGGCGTACCGATTGCCGGCAGTGC
CGACATTGTTTACGAGTCCCGCCACCTTCCGCGTGCCGCGTCGATTGCGGCTGGGGCG
GAACATTATTAAGACAGACGGCGGCTTCGGCAAAAAGGCGACCGCTTAACCTCAATAT
CACCGCACCCGATTATCCCGTTTCGGTTTCGGACTCGCGGGGTCTTAAATGTACGCGG
ACACCTTTCGGGTGATTGGACGGCGGCATCCGAACCTTTGAAACCGACCTTTCGGCGC
GGCGCGCAACCTTACACATCGGCAGGCAAGGCGGCAGACATCCGTTTCGCTCGATTTCACGCTCAA
AGGTTTCGCCCCGACACAAGCCGCCGATACGCGCCGACATCAAAGGCAGCCGCTTTCGCT
GTCGGGCGGAGCGCGGTGTGATACCGCCGACCTGATGCTGGACGGCAGGGCGTGCA
GCACCGCATCCGCACACGCGCCCATGACGCTGGATGGCAAACCGTTCAAATTCGATT
GGACGCTTACGGCGGCATCAACAGGGAACCTTACCGATGGAAAGGCAGCATCGGCATCCT
CGACATCGGCGGCGCATTAACCTCAAGCTGCAAAACCGTATGACGCTCGAAGCCGGTGC
GGAACGCGTGGCGGCAAGTGGCGCAAATTGGCAGGCAATGGGCGGCAGCCTCAACCTGCA
ACACTTTCCTTGGGATAAAAAACCGGCATATCGGCAAAAAGGCGGCACACGCTTCGCA
TATCGCCGAGTTGCACAATTTCTTCAAACCGCCCTTCGAACACAATCTGGTTTAAACGG
CGACTGGGATGTCGCTACGGGCGCAACGCGCGCGCTACCTCAATATCAGCCGGCAAG
CGGCGATGCGTATTGCCGGCGGCGAGGCTTGGGTTTGAACGCATTTTCCCTGAAAC
GCGCTTCAAACCGACCGCATCGGAATCCTGCTTACGCGCGCGCGCTTTCGGGCGGAT
TAACGCGGATTTGGGCATCGCCAACGCGCTTCGGCGGCAATATGGCAATGACCGCTCGG
CGGCAGGATTACCGCTCCCTTCCCGACTTGGGCGCATTAAGCCCTTTCGCGCGCGC
CGCGCAAAACATTACCGGCAGCCTGAATGCGCGCGCAATCGGCGGACGGGTAGGCTC
TCCGTCCGTCAATGCCCGCTCAACGGCAGCAGCAACTACGGGAAATCAACGGCAACAT
CACCGTCGGGCAAGCCGCTCTTCGATACCGCGCTTTCGGGCGGAGGCTCAACCTGAC
CGTTGCCGATGCCGAAGTATTCCGCAACTTCCTACCGGTCGGACAACCGTCAAAGGCAG
CCTGAATGCCGCGTAACCTCGGCGGCAGCATCGCGATCCGCACTTGGGCGGCAGCAT
CAACGGCGCAAACTCTATTACCGCAACCAACCAAGGCATCATCTTGGACAACGGCTC
GCTGCGTTTCGATATCGCGGCGAGGAAATGGGTAATCGACAGCCTGAAATTCGGCAGCA
AGGACGGCGGAACCTTCGGGTACGGTACGGTATGGAAAACAGCGGACCGATGTCGATAT
CGGCGCGGTGTTGACAAATACCGCATCCTGTCCGCCCCAACCGCGCCTGACGGTTTC
CGGCAACACCCGCTGCGCTATTTCGGCGCAAAAAGGCATATCCGTTACCGGATGATTAA
AACGGATCAGGGCTGTTTCGGTTTCGCAAAAATCCTCGATGCCGTCGTCGGCGACGATGT
CGTCTGATTAGGCGAAGTCAAAAAGAGGCGGCGGCACCGCTCCCGTCAATATGAACCT
GACTTTAGACCTCAATGACGGCATCCGCTTCGCGCGCTACGGCGCGGACGTTACCATAGG
CGGCAAACTGACCTGACCGCCCAATCGGCGGAAGCGTACGGGCGTGGGCACGGTCCG
CGTATCAAAGGGCGTTATAAGGCATACGGGCGAGGATTGGACATTACCAAGGCACGGT
CTCCTTTGTGCGGCCGCTCAACGATCCCAACCTCAACATCCGCGCGCAACCGCGCTTTC
CCCCGTCCGTGCGGCGTGGAATATTGGGCAGCCTCAACAGCCCGCGCATTAACGCTGAC
GGCAAAAGCAACCTGAGTGAAGAAAGACAAGCTCTCTTGGCTCATCTCAACCGCGCGCG
CAGCGGCAGCAGCGGCGCAATGCCGCCCTGTCTGCAGCCGAGGTGCGCTGCTTGGCGG
GCAAAATCAACGACCGCATCGGGCTGGTGGATGATTGGGCTTTACAGCAAGCGCAGCCG
CAACGCCCAAAACCGGCAACTCAACCCCGCGCAACAGGTGCTGACCGTCGGCAAACT
GACCGGCAAACTCTACATCGGCTACGAATACAGCATCTCCAGCGCGGAACAGTCCGTCAA
ACTGATTACCGGCTGACCGCGGCATACAGGCGGTGCGCGTATCGGCAGCGGTTTCGTC
GGGCGGCGAGGTGACATACACCATACGTTTCGACCGCTTCTCCGTTTCGGCAAAAAGA
CTCCGCCGGAAGCGCAAGGAAATAAGCGGTTTTCAGACGGCGCGCGCAACCGGA
CATTTGAAAACCTGCTTTTCCACCGTCCGCGCGCGCGTCCGCTGCAAGGGAACAGAAT
CGATATAGTGAATTAACAAAAATCAGGATAAGGCGACGAAGCCGCGAGACGTACAAATAG
TACGGAACCGATTCACTCGTGCTTGAGCACCTTAGAGAACGTTCTCTTTGAGCCAAGG
CGAGGCAACGCCGTACCGGTTTTTGTAAATCCGCTATATCCGCCATCTCTAAGATTTAC
AGCGATACACAGGTAATTTAAGGAATGCCGAACCGTCATTCCCGCCACTTCCGTCATT
CCCGCGAAGCGGGAATCTAGGACGAGGTTAAGAAAACCTACATCCCGTCATTCCCGC
GAAAGTGGGAATCTAGAAATGAAAAGCAACAGGCATTTATCGGAAATAACTGAAACCGAA
CAGACTAGATTCCCGCTGCGCGGGAATGACGGCTGCAGATGCCCGACGGTCTTTATAGC
GGATTAACAAAAATCAGGATAAGGCGACGAAGCCGCGAGACGTACAAATAGTACGGAACC
GATTCACTCGGTGCTTGAGCACCTTAGAGAACGTTCTCTTTGAGCCAAGGCGAGGCAAC
GCCGTACCGGTTTTTGTAAATCCGCTATATTCGCCATCTCTAAGATTTACAGCGATACA
CAGGTAATTTAAGGAATGCCGAACCGTCATTCCCGCCACTTCCGTCATTCCCGCAAAA
CGGGAATCTAGAACTCTCGGATTTTTCAGATAATCTTGAATATTGCTGTTGTTCTAAGGT
CTAGATTCCCGCTGCGCGGGAATGACGATTCAAGTTTCCCGAAATTTCAACATAACC
GAAACCTGACAGTAACCGTAGCAACTGAACCGTCATTCCCGCAAGGTGGGAATCTAGAA
ATGAAAAGCAACAGGCATTTATCGGAAATAACTGAAACCGAACAGACTAGATTCCCGCCT
GCGCGGGAATGACGGCTGAGATGCCGACGGTCTTTATAGCGGATTAACAAAAATCAGG
ACAAGGCGCGAAGCCGCGACAGTACAAATAGTACGGAACCGATTCACTCGGTGCTTCA
GCACCTTAGAGAACTGTTCTCTTTGAGCTAAGGCGAGGCAACGCGTACTGGTTTTTGT
AATCCTCTAATGCGCCCTTCGGCGTGCGGATATATAAGGAAGTATTTCATCTAA
GTAAAAACCGCCCTATCGGATAAGCCCTTAACAGAAAAGGCTTTACCGCGCGGTATCGG
AACACATCCTCTAAATACAATCCGTTGAATTGAAAAAATATAAAACATCCGCCCGCG
AAAAACGGCAGCGCTCGTTTGACAAAGAAATGAAAATATCGGTTAAAAACCGATTTTCAT

Appendix A

-501-

ACAAAAAACACCGCTGCCGTCGCGATCCGTTTCAGACGGTATTGAGAGAAAATCTTTTAG
GAGAACCTTTATGTCCCGGCATCCGCGCCACCGGAGAAAAACATCTTCGGCCACCC
CTTCCAGCTTTCCACCTCTTCCATATCGAATTGTGGGAACGTTTTTCATTTTACGGAAT
GCAGGGCATCCTGCTGATTTACCTCTACTACCGCCGACAAAGCGGCTTGGGCATAGA
CAAAACCTCGCCGGCGGCGATTGTGGCGCATACAGCGGCAGCGTGTACCTGTCCACCAT
TTTGGGGGCGTGGTTTGGCGACCGAGTATGGGGTGCAGAAAAACCTCTTCTCTCGGG
CATCGTCTGATGTCTCGGACACATCGTCTTGGCGCGCCCGGGGCTGTACGGCCTTT
AATCGGGCTGATATTATCGCATTTGGGCAGCGCGCGGTGAAATCTACGGCCAGTTCTAT
GGTGGGCGCATTTATACGAACAGGACGAAATGCGCCCGCTGCGCGATGCGGGATTTTCCAT
TTTCTACATCGGCATCAACATCGGCGGCTTCCTAGGCCCGCTGCTGACCGGCTACTGCA
GGAAAAACATCGGTTTCCATTATGTTTTCGGCGCGGCGGCGGTGCGGTATGGCATTCGGCTT
GTGGCGTTATTCTCTGGGACGTAAAAACCTGCCCCACCCACCGTCCCCATCCGCTTTC
AAAAGGACAGGGCAAACTGCGGCGCGGCTCGGCATCGCCCTCATCGCGCACTTGCAAC
CGCCATCAAAACCGGCTTGTCAACCTCGACAATTCTCGGCATCCTATTATCTACCGT
CATCCTTGGCGTCATCGCCTATTTTCGCCCGCTGCTGACCAACCCCGCGTCAGTTCCGA
CAACAAACGGGCATCATCGCCTACATCCGCTTTTCTGACCATCTGTATGTTTTGGGC
CGTCTGTTTTCAGATTTACACCGTGGCAACCGTCTATTTCGACGAAACCGTCAACCGCAC
CATCGGTTGCTTTACCGTGGCGGCTCGCTTGGAAAGATTCTATGCAAGCGTGTGGGTCAT
CCTGTTTTCCGGACTGATGGCGGCAATGTGGACAAAAATGGGGCGCAACAGCCCAAAAC
CCCGCTGAAATTCGCTATGGCGGTATTTGTTACCGCGCGCTCGTTTTTGGGATTCTGCC
CTTTATTTCTCCGCTACGCGGATGCGCTATTGCGGTTTTTCGCACTGATCGTCTCGCCAT
CACGATAGGCGAAGTATGATTTCCCGGATGCGCTGTCCATCTCCACCAAAATCGCAC
GCCTTTATTTCAAACCTAAATGGTCGCCCTTAATTTCTTGCCTTTTCATTAGGCTTCAC
TTTGGGCGGCGTATTGTTTGA AAAAGGCTATCAGGCGGGGACGAAATCGGCTTCTATCG
GCTGCTGTTCTACATCGGCGCAGCCACAGGCTTCTGCTGCTCCTGCTCGTCCCAAAAT
GAACAAATGCTCGAAGGCACAGACTAAGTCCCGCCCCGATGCGCTCTGAACCCCTCAGA
CGGCATTTTCCGCATAATGAACCAACCGTTTCCACCGACAGGACAGGCTCCCGCCC
AACCGGAAGCGCTGCGGATTGCTCATTTGAATAACGCAAGGGAAGCCGTTGATTTC
GTTTGATGGAACAGTTTGGTTTCATTGGA AAAAGGCAATTTGTCCGACTAAATAGTG
CTGCATCAACGAAATATATAGTGGATTAAACAAAAATCAGGACAAGGCGACGAAGCCGAG
ACAGTACAAATAGTACGGAACCGGATTCACCTGGTGCTTGAGCACCTTAGAGAATCGTTCT
CTTTGAGCTAAGGCGAGGCAACGCGGTACCGGTTTTTGTAAATCCACTATAAAACACAA
CCTAAATAAAAAATGCCGCTGAACCATATTTAGGTTTCAGACGACATTTGCGTGTGCGA
TGCACACCGGACAGGCGGTAAAGCGGGTCTGTCTCGGACAGTCTTCTCTAGGCATAC
CGTTACCGGTATGCTCAAGCAACCTACCCGAACGCTCGGCGGGGACGCTCATTTGCTTCT
GTTTGGTCTTGCTCCGAATGGGGTTTGGCCTGCCGATATTTGTACCAATGCGCGGTGC
GCCCTTACCGCACCTTTTACCCTTACCTGTGCTGCCAAAGCAGCCATCGGCGGTTTTGC
TTTCTGTTCCCATTTTCCGCTGCGGTTACCGCGCCCGGCGGTTAACCGGCATTTACCTCG
GGAGCCCGGACTTTCTCCCGTATGCTTACGCGATACGCGGCGACTGTCTGCCCGTCC
CGTGTGCGGCGCGGATTATAACACGAAACACAAAAATGCCGCTGAAACCGTACAGGTTT
CAGACGGCATACAGCCTAACCTACACGCGCTGTTTCAGGCTGGCTTCGATGAAGCGTCC
AAGTCGCCATCCAAATACGGCTTTGGTGTGCGGACTTCGTAGCCTGTACGCAAGTCTTTG
ATACGTGAGGAATCCAAACATACGAACGGATTGGCTGCCCAACCTACATCGGATTTA
CCTTCTTCAACGCCTGTTTCTCTTCATTGCGTTTTGCGCATTTCCAATTCATACAGTTTG
GACTTCAACATTTCTCGACGCGCTTTGTTGGCGTGTTCGCAACGGTTCGTTTTGACAT
TGCACCACAATCCCGCTCGGCTCGTGGGTAATGCGCACGGCGGAGTCGGTTTTATTGATG
TGCTGACCGCGCCGACCCGATGCGCGATAGGTGTGATGCGCAAAATCGGCGGGGTTGATT
TCGATTTTCGATGGAATCGTCGATTTCAGGGTAACGAACACGGAGGCAACAGGATGG
CGTTTGTGTTTCGAGTCAAACGGCGAGTAACGCACCAAGCGGTGAACGCCGTTTCGGTA
CGCAGCAAAACATAAGCGTATTCGCCCTTCCACACGGATGGTGGCGCGGTTGATGCTGCG
ATTTCCGCGTCTGCTTCTTCAAGGATTTCGATTCTGAAGCCTTTGCGCTCGGCGTAGCGG
CTGTACATACGGGAACAGCATACCCGCCAGTCTTCCGCTTCCGTACCGCCCGCGCTGCG
GTGATGTGATAAAGCAGTTGTTCCGGGTCGGCGGCTGGTTGAACATCCGTTTGAACCTC
AAATCCGCCATCTGTTTTTCCAGCCCCGCTACGCTTCTGACAGCGCGGCAAAACCTTCT
TCGTGTTTTCTTCGACGGGTCAATTCATCAGCATGCGGTTGTCTTCGATGCCCGAAGCG
ATGTTGTGCGAGCGTCAACACGATGCCCTTCGAGGATTTTGGCGCTTTTGGCGATTTCTTG
GCGCGTTTTCCGGTCTGTTCCAAAGTTCCGGGCTTCTCGGAAAGACCGATAACTTCTTCCAA
CGGTCTTTCTTACCCTGATAATCCATATAAACTCGGATGTCTTCGCTGCGCTTTTCCAAA
TCGTTACGGGTATTGTTGAGCTGGTTGATTACTTCGGCTTCCATGATTCTTTTGTCTTT
CAAAATTTTAGGGGCGTATTGTACGGGATTCGGGTATTTTTTCTATGGATAAAGCCTTC
TGGAAACAGCTTCAGACGGCATAGCGTCAATAACGGTATGCCGCCAGTTTGGCTTTGATT
TCAGGCAATGCGGCACGTGCTGCTCCTCACCACCGGATGGCGGTTTTTCTGATCG
AATCCGCGGACTGCACCAATCCAAACCTGCGGTTTGATAACACATCCGCTGCCCG
AATCATTTTGAACGCAAGAACGCTCATACGTTTACGCTGTGATCGAGATAAGAGAAG
AAACCTTGGCTGATGTTTTGCCCCGACGGGCGGAAATATCAGCGCAATCAGGAAATTC
GCCCCCTGCCGCGGGGCGGCACTGACGGGCACGGGCTGCGACAGACCGCGTCAACATAT
GTATGCCGTGCCGATGATAACGGGTTGGAACACATTGGGAATGGCGGCGGAAGCGCGACA
GCCTGCCCGGATTTCCCTGATTGAAAGCGACGGCTTGGCGGTTTCAAAATCAGTAGCA
ACGGCGGCAAAATTTGATGGGAACTGCTGAATCTGCTGCCCGGACTTTTCGGTTGATG
TAATTTTGCAGCTTTTTCGCTTTGATAAAACCACTGGTGGACAAGGTTAAATCGACCAAA
TCGGTTTTTGCCTAAAATTTTCGGCTTCCAATTCGAGGCGGTCGGGCGACATACCCGATGCA
AAAAGGCTGCCGACAATCCGAACCTGCCGATGTGCCGTAACCACTTCACAGGAATACCG
TTTTCTTTCAAACCTTAATAATACCTACATGGGCAAACTCTTTAGATGCGCGCCACCG
AGTGCCAAACCGACCACTGCGGCGGTTTGGCGGTTTGCACCGGCTGCGGACAGCATTA
TTTCCGCGGTCGCCGACGGCGCAAGCAACGCGGCGGCGGATTGCCAAAAGCGGTCTG

Appendix A

-502-

ATTTTTGAAACGTTACCATATTTTCCATTCCCTTTATATATCGCACCCCGTCAAAAAGAG
GGATTGCTTTTCTTAACACCCCTTTTGACAGCCAGCAATGGGGGCTTTGTTAAGTCA
TCATCAAAATTAATATTTCTTTTTTTTCTTTACGGAATATATTTGAAGGCATACT
ATCCAAGCGGGGAATTATCTCACAAACACCGCGTTATCCAATATCCCGCTTTTCCCT
TTCTTTCCATCAAAATACCTTTCTTTTATATTCATTAACCTGTTAAATCATTTGGCTGCCG
GGTGTCACTTTTCCGACAAAATCCGTCTAATGGGGTATCAACAGAACCAAAACAGGAAC
ACTTATGAAAATCGGAACACTTTGGCAGACGGCATCCGCTATGCTGGTTTTGCGTCTGTT
TGCCGCATATGAATTTTGAATCGGGTTTGCAAAAATGGAACGGGGAGAATTGGTTTTT
CGAAATCAACGATCAGTTTCCATTCCCGTTCAACTTGCTGCCGGACGCGTTAAACTGGAA
TCTCGCCATGTATGCGGAGCTTTTGCTGCCCGTATTGTTGCTTTTGGGTTTGGCAACGCG
TCTGTCCGCATTGGGGCTGATGGTCGTTACCGCGCTCGCTGGGGCTGCGGTTACGCGCG
TTCGGGTTACAATGCTCTGCGACAACGGTTATAAAATGGCTTTAATTATATCGTGGTATT
AATCCCGCTGCTTTCCAGGGTGGCGGGGATGGTCGCTGGATACGCTGCTGAAAAACG
GTTTTGCCCCCGATGCCGTCTGAAACAAGATTGATTCACTCGTGGAATCTGACTTTAAAC
ATTCCAACCTTATCTCGTTAACTTGATATTTGAAAAGGAAATGACATGAACAAAAACAT
TGCTGCCGCTCTCGCCGCTGCTTTATCCCTGTCTTTGGCCGCGCGTGCACTTGCTGCCAA
CAAACCGGCAAGCAACGCAACAGCGCTTCATAAATCCGCCCATGGCTCTTGCGGCGCGTC
CAAAATCTGCCGAAGTTCTGTCGCGCGCGGCTGGTTCAAGCAGGCGGAAGCAAAATGCGG
CGAGGGCAAATGCGGTGCGACCGTAAAAAAACCCACAAACACACCAAAGCATCTAAAGC
CAAGGCCAAATCTGCCGAAGGCAAAATGCGGCGAAGGCAAAATGCGGTTCTAAATAATCCCA
CCCCTTCAAAACCAAGCCGCTTTTTCAGTAAAATGCGGCTTTTTTAACGGCAACAAAGA
TTTTTTAAACAAGCACATCATTCTTTTGTCATCCGAACCGGGTAAAAATATGATTCAAC
ACGACAGCTTTGGGCTACCGCCGCGACTTTGGCGGAAGACTTCTCTCGCTTTCCGAAAAACA
GCCCGATATGCTTTATGAAGCCGACCGGAAACTGGCTGAAATGGGCGGCTGGGCGC
GCAAAACAGTTTGAACCTGTGGCGGAACGGCTGCCGCTGGCGTTGCACGATTGTCTATGT
CGCTGGGCGGGCAAGCACCGCTGGATACTGATTTGATAGACGGCATCAAAGAAATGATGC
GCCGTTACGATTGCACGTTTTTCTCCGACCATTGAGCTACTGCCACGACGGCGGTCATC
TTTACGATTGTGTCGCGCTGCGCTTTTACCGAGGAAATGGTGCATCATACGGCGCGGCGTA
TCCGCGAAGTGCAAGACCGTTTGGGCTGCCGCATCGCCGTGGAACACGTCCTACTATC
TGCAATCCCGCTTGCCGAGATGAACGAGGTCGAGTTCCCTCAACGCGCTCGCACGTGAGG
CGGATTGCGGCATTCACTGGATGTGAACAATATCTACGTCAACGCGCTCAATCACGGTC
TGCTGTGCGCGGAGGCTTTTTTGGAAAATGTGGATGCAGAGCGCGTGTCTATATCCATA
TTGCCGACATGACGTGGAACGCGCGAATTGTTGATTGATACATATGGCGCGGCGAGTTT
TGCCGACTGTTTGGGACTTGCTCGAACTTGCTATGCCAAGCTGCCGACGATTCCGCCCA
CCCTGTTGGAACCAAGCTTTAATTTCCCGCTTTTTCGGAATCGAAGCGGAATCGCCA
AAATCGCGGATTATCAACGCGCTGCCGGAAGGAATGCCGCGCTGCAGCCTGAAACCTCC
GCCAATACCAACACCGTTTCCGCCAAGCCATACGCGGGGGCGAAGCCGACAGCGGCTG
CCGCAAGACCGACTGAACTGCTATATCCGCTGATACGCAACAATATCTACAGCTTTATC
GACCGTTGTTATACCGAACGCTGCAATACTTTGACCGCAAGAAATGGGGCGCTGAAA
GAAGGTTTCGTCGCGGACGCGTGCGCCAAACGCGCTATTTCAAGAAATCCCGCGGAG
TTCCTCCAATATTGCCAAGCCTGCCGCTTTAGACGGCATTTTGGCACTGATGGATTTT
GAATATACCAATTGCTGGCAGAAAGTTGCTCAAATTCGGGATATCCCGACATTCAATT
TCAAATGACAGCAAATACACACCTTCCCTGCGGCTTTATCCGGCAATATCGATATGAT
GTTACCGATGATTGATGAAGCGGAACAGCCTTGTTAATATGGCGAAGCGCGAAGAT
GATGTGATGTACCAAACTTGACGCGCTTCGATATGATGCTGTAGAAATAATGGGGTTC
TCCGCGCTTTCGTTTGACACCTCGCCAAACCTTGTCGAATTTATGCCTGAGGACGAT
AATTGGAATAATTTTGCCTTGGGAAATGGTCAGGCTGGACTGAACAAAGGATTATCATC
CCCTCCTGTCCCGCATATCCGAAAATATGGAAGACAATTCGCCGGCCAAACCATCTA
TCCGCATAAAATTACCTTGTTCCCGATACATATGCCGCTACCCGACCTGACCGATGCCGAA
TTAATAGAGTCGCGTAACTGCTTCTGCATTTTGCGCGGCTTCAGTTGCCCGACACCCCT
GATTTGGCTGAAGATTTAGTGCAGGAACATTGCTGTCCGCATACAGCGCAGGCGACAGT
TTTCAAGCGAGGCACTTTGCTCAACAGCTGGCTTTTGGCCATATTGAAAAACAAAATTATT
GACGCATTACGTCAAATCGGAAGCGAGGAAAGTCTTTACCACACTGGATGACGAGCTA
CTGGATGAAGCATTTGAAGCCATTTTCCCAAAACGGGCATTGGACGCGAGGAAGGCGAG
CCGCAACATTGGAACTCCGGAAAATCATTAACAACACGAATTCCAAAAAATTCTG
CAAAGCTGCCTATACAAGCTGCCTGAAAACACCGCACGGGTATTTACCCTGAAGGAAATA
CTCGGTTTTTATCCGACGAAATACAACAAATGTGCGGTATCAGCAGCTCCAATACCAC
ACCATTATGCACCGCGCCGAGAAATCATTGCGCAATGCCTGCAAAATCAAATGGTTCAAC
CAAGAAAACCCGAAAGTAAACGTTATGAAAAAATGCCGCGATATCGCCCTGCTTCTTTCCA
AACATCAGGACCGGGAACCAACCCCGGGGAGAAATTTCCATATACACACCTGCTGT
TCTGTCCGTTATGCGGTGAATATAAAGACAACCTTCAAACCATCAAAGATCACTGGCAA
AAACAACCGAGAACTTCAAATAAATGCCGCTGAAAAGGCTTCAGACGGCATTAAGCTGAC
GGAAACAAATCAAACCGATTACTGTTATCTGCAGTTCATCCATAATACACACTTCAAAA
GCAGCATATTTCCCATACGGAATGTATAAATACGCAAAATACGAAGGCTGCATCAATTT
GCCATATTTGCTTTATTTGCTTATTTACAGACGGCGCTACCCCTCCCGCCCAACCGGT
TCTTTCTGAATGAGCAGATTTCAATGATTAAAGAAACCTAATGCGCCCAATCTTCCTAT
CTTTGCTTTATTCCTATTTTGATAACCGCTGACGACACCGGACAAAGTCTGCCCGAT
GGGAAAATATCGGCACAATCTCAACGGCAATATTCATACATATATCAATAAGACAGCG
TGAGAAAAACGGAACTCTGATGATTTTCCAAGATAAAAAGTTGTTACCAATCTAAAC
AAGAAGCTTTTGCCAACACCCCGCATACAAGACTGCCATTGCCGAGTGGGAAATCCACT
GCAACAACAAAACATACCGCTTAAGTTCCGTACAGTTGTTTGATACAAAAACACGGAAA
TTTCCACACAACACTACACAGCCTTCTCCCTCCCGCCGATGAGCATCTGTCCGGGACAT
TAACCGAAAAACATATGAAACCGTATGCGGAAAAAACTCTGATTGCACTTATACACA
AATTAACCCACAACCTTATCAAAAAATGCCGTGGAATACTGAAATATCAGCATTTT
AGACGGCATTTGCCATTCCCTGAAAATTATCCACAAGTTATCCACATTTATTTTTTAAA

Appendix A

-503-

ACCGGCTTCCATCCGAAATATAGTGGATTAACAAAAATCAGGACAAGGCGACGAAAGCCGC
AGACAGTACAAATAGTACGGCAAGGCGAGGCAACGCCGTACTGGTTTAAATTTAATCCAC
TATATAAACTCGCTATACAAATTTACTATCCAAACGTAAATTTGTTCCATTGTATACAAAA
ACTGCTTACCCCCATAAATTTGATAAAGCATTTCTTACATTTCCCGGCTCCGTCCCGTAAC
CAACACAGCGGCGGATTTCGCATTTGAAGTGAACCTTTCCCTAACAGAAAAAGGCCAGTAT
GCGGTAGCATACGACCTTTCTGCAAGAAAGATTGCCATGAGCTACACGCAACTGACCCA
GGGCGAACGATACACATCCAATACCTGTCCCGCCACTGCACCGTCACCGAAATCGCCAA
ACAGCTGAACCGGCCACAAAAGCACCATCAGCCGCGAAATCAGACGGCACCACCCAAAGG
GCAGCAATACAGCGCCGAAAAAGCCAGCGGCAAGCCAGACTATCAAACAGCGTAAGCG
ACAACCCCTATAAGCTCGATTTCGACGTGATTTCAGCACATCGACACCCCTTATCCGCGCAA
ACTCAGTCCCGAACCAAGTATGCGCCTACCTGTGCAAAACACCACAGATCAGCTCCACCA
CAGCACCATTTACCGCTACCTTCGCCAAGACAAAAGCAACGGCAGCACGTTGTGGCAACA
TCTCAGAAATATGACGAAACCCCTACCGCAACCGTACGGCAGCACATGGACAGAGGCAA
AGTACCCAACCGTGTCCGCATAGAAAACCGACCGCTATCGTCGACCAGAAATCCCGTAT
CGGCGATTGGGGAAGCCGACACCATTTGTGCGCAAAGGACAGAAAAGCGCATTATTGACCTT
GGTCGAACGCGTTTACCGCTACACCATCATCTGCAAATTTGGATAGCCTCAAAGCCGAAGA
CACTGCCCGGGCAGCTGTTAGGGCATTAAAGGCACATAAAGACAGGTTGCACACCATCAC
CATGGATAACGGCAAGGATTTTACCAACACACCAAAAATAACCAAGCATTGAAAGCGGA
GACTTATTTTGTGCGCCTTACCATTCTTTGGGAGAAAGGGTGAATGAGAACCAACCGG
ACTCATCCGGCAATACTTTCCCAAAACAAACCGATTTCGGTAACATCAGTGATCGGGAGAT
ACGCAGGGTTCAAGATGATTGAACCAACCGACCAAGAAAAACACTTGGCTACGAAACGCC
AAGTGTTTTATTCTTGAATCTGTTCCAACCACTAATACACTAGTGTGCACTTGAAATCC
GAATCCAAGAGCCTCTAAAAAATAATCGCTGTTTGTGACACCGATACACTCATATAGTGG
ATTAACAAAAATCAGGACAAGGCGACGAAGCCGACAGTACAAATAGTACGGCAAGGC
GAGGCAACCGCGTACTGGTTTAAATTTAATCCACTATACAAATACAGAAACTCAAGAAAA
TAACCTTGTGATTGACCATCTCAAGCAATTCAGAAAAATCAAGAAATTTTCTGACCGTA
AACAAACGTTTCCCTAAAAAAACGATGTCTTCAAAAATATCGAACAAATAGAGACCTTTG
CAAAAATAGTCTGTTAACGAAATTTGACGCATAAAAATGCGCCAAAAAATTTCAATTGC
CTAAACCTTCCTAATATTGAGCAAAAAGTAGGAAAAATCAGAAAAGTTTTCATTTTGA
AAATGAGATTGAGCATAAAATTTTAGTAACCTATGTTATTGCAAAAGGCTCAAAATAATCA
TCTTCGCGGTTTTTCAATTTTATGGATTAAACAACACGGGAAAAATCTGTTTTTCAGATGC
TTGCCCCGTTGATTGTTTCGGATTATTGTCCGGAACGACAAAACCGTCTCAAAATTAAG
CAGACGTTGCGTCTTCTACCTTTATCTCTGTGCAATAACAATCATGTAGAGAAATGCTA
TCCGAAAAATTTTTTCTTTGTGTATGCAAAAAAGTTTTTCATTCAAGTACCATATCTAA
CGCAAAACGTTTACCTGTTTCCCGTCAATAATCTGACTCGGCGATTCTGCTGCGCGATT
CTCCCAACCAACATCCACACATCGCGTCCGAATTGCCTTCTGACTTCCCTCTCCGTCCGA
CAGCGCGCTTTGCTGCGCGGTTGCACGAAGTCGAGACCAAGGCGTTTGCAGGCGTGA
CACAAGCGGCGCGACCTGAGTGGGCGGAACCTGACCGCAACTTGTGCGCTGTTTC
CCGCGTAACCTCGGTAAGACACAGGATTGGCGGATAATAGGAACGTTTTAGGGGCGGGC
CATTTCTTTCTAAGCATATCTCTGAAGATTTCAGACGGCATTTGAAGTAAAGGCTGCAAT
TGTTCAAAATTGATCCCGATGACAATCATACCCTTGTGTTGCGGCTTTTTTTTCAAATGC
GCCAACTTACCGTACTGTTTCCCGTCAATAATCTGACTCGGCGATTCTGCTGCGCGATT
GTCCGATAAGCGACCAAAACACCTTTTTTCAAATAAACGCTTAACCTACGTTGCGCTGAT
GCTGCGATAATTTCTCGGAATAACATAATATAAAATACCGTCTGAAGCACATTAGTCATA
CTTGGCTTCAGACGCGCATCATCTCTTTCTAATTAACGGTTAATCGCTTTATCGGCAATG
TCTTTACGGTATTGCATCCCGTCGAAACTGATTTTTTCCAACGCGCCATATGCCTTAGCT
TTCGCTTTCGCGCACATTATCGCCCAATCCCAACAACACAATACGCGTCCGCGGTTGGTC
AATACGTCACCTTTCTCGTTTCCCGTGTACCTGCATGGAAAACTTTGCGGATTGTTTG
GCAGCATCCAGACCGGAAATAATATCGCCTTTTTTGGGCGTTTTCGGGTAATTTTGGCC
GCCAGTACCACGCCACCGGAGTTTGGCGGCTCCATTCGCGGTTACGCTATCGAGTTTG
CCGTCTATTGCGGCTTCAACCAATCCGATAAGTCGCTGTTTCAGTCGCGCTCATAATCGGC
TGGGTTTCAGGATCGCCGAACCGGAGTTAACTCAATCGTATAGGGTGCACCGCTTTGA
TCAATCATCAAACCTGCGTACAGGAAACCGGTGAACCTATGCCCTCCGCTTTCATCCCT
GCTACGGTCGCGAAATAATTTTCATTCATCGCGCTTCGTACACAACAGGCGTTACCACA
GGCGCAGGCTGTACGCAACCATACCGCCGTAATTCAGACCTTTGTGCGCGCTCAAAAGA
CGCTTGTGCTTCTGGCTGTTGCCATAGGCGAGTACATTATTGCCATCAACCATGACGATA
AAACTCGCTTCTTCGCTTTCAGGAAATCTTCAATTACAACACGCGCGCCGCGATTGCC
ATTTTGTGTCCAGCAGCATATCATCAATCGCAGCATGCGCTTCATCCAAAGTCATCGCC
ACAATACGCGCTTTACCTGCCGCCAAACCATCGGCTTTGATAACGATAGGCGCACCTTTC
TGATTGACGTAATCATGTGCGGCATCGGCGTTTTTCAAAGGTTTGATATTGCGCGGTCGGA
ATATTGTATTTCGCCATAAATGCTTTGGCGAAATCTTTGGAACCTTTCAACTGCGCGCA
TATTGTGTCGGACCGAATATTTTAGTCTTCGAGCAGCGAAATCATCCACAATACCTGCC
GCCAAAGGCGCTTCAGGGCCGACGAGGTAAAAACAATATTTCTTTACGACAGAATTCA
ATCAAATCTGATGCGCAGTCAAGTCGATGTTTGAACCTTGGGTTCAATCGCTGTACCG
GCATTACAGGCGCAACAAATACTGTTTCCACTTTTAGGCGACTGCGCAATTTCCAAGCC
AGCGCGTGTTCGCGACCGCATTAACGATACACGAGTTTCATACCATCTCCTTGACAA
ATATGTACTTTTAAAGAAAACGATACAAAGGGACTTTTATCCCATCTGAAGAAATTTT
AGTAGAATCAAACAAAAGACCGCTTCATTCACCTCTGCAACCTATTCAACTTATCCATAA
ATTAAAAAGGACAGCAACCAATGCAAAAACGTATTGATGAAATCAAAGCAAATACCGC
GAATGGTGTCAATTTACTACCGCAACTGGAAGAAGACATCCGCGGTTGGAACATGTCGTC
ACTTTAATTCGCGCATGGAATTTCTATACCCACGAGTATCAGGCGTGTATCAGGCT
ATTGAAGACGGGGTAGAATTTGAGTTGAGTACGGAAGGCGAATACAGCATTATGAGTGAA
GATGCGCTATGGAACGCGCTGGGCGAATTCATCAATTTGGCTTGGTTATATTGCGCTCC
AGCGTCGATGCTTTAGACAATATACACAAGAGATTAGTCAGCGAAGAGGTCGTCTGAA
ATACCATCAAAAGCATTTTCAGACGACCTTTTCATTCAAAGGCTTTTCCGTATTTACTTC

Appendix A

-504-

AATCTGCCGAGTATTCTTCCAAGCCGCAACACAGGCCTCATAATTTACCAACGACAAACT
GACCGTCAATCGGCAATCCAACCTGCAAAATCCCGCTCCAATATATCCGCCTGATATTGTTT
GGCAATCGGTATCGCTTCATTCAAAAACGGATATTCACATTTACAGCCAAACAGTTTTTTC
AATATTCTTTTTCAACTACTTCTGCAACTGCCAACGCTTGAGCCGTCGCCTCTTTGTACGC
ATGTATCAGACCTGGAACACCTAACAAAGTACCACCGAAATAGCGGACGACCACAACCAA
AACGTCGGTAATACCCACCGAATCAATCTGTCCCAAAATTTGGTCGTCCAGCACTTCCTGA
TGGCTCTCCATCATCGTTGGCACGAAATTGCACACCATCCACACCCAAACGATAGGCATA
GCACCAGTGTCTGCTTTATGATGCTCTTCCTTTAACGGATCGAGGTATTTTTTCACATC
AGCCAAATGTCCGAATCGGATAGGCAAAATGCAATAAAACGGCTGCCTTTATCTTTAACTC
AGCCTGCGTCAAGGAAGTAATGGTTTTATAAGTCGTAATCATGCTGAAATGTTTTCAGAC
GACCTCATTAAATAACAAGGTCGTCTGAAAGTTTCACGTGAAACATCAATTTTTCAATACT
TCTGTTAATTGTGGAACGATTTCAAATAAATCGCCAACCAATCCGTAATCGGCTACATTG
AAAATCGGCGCATCAGCATCTTTATTGATTGCAACAATCACCTTACTGTCTGCATACCG
GCAACGTGTGTAATTGCACTGAAATACCGATTGCAAAATAGAGTTGCGGCGCAACCACT
TTACCGGTTTGTCCGACTTGAGCATCGTTTGGCGCATATTCGGCATCAACTGCTGCACGG
GATGCACCGATTGCCGCACCTAAACATCCGCCAACGGTGTGAGCACTTCATTGAATTTT
TCCGCACTACCAACGCGACGACCACCGGAAACAATCACTTTTGCCTGAGTCAGTTCAGGA
CGATCGGAATGGGAAAGCTGACGGTTAACAAAACGACTCAGGTTTGGGCGAGGGTTGCT
TCAACATTAATTACCTCAGCATTACCACCTTGCGCGCCACTGCGTCAAAAACCGTCGCA
CGGAAGGTGAGCACCAATTTTTCTGAATCAGCTTGACGGTTTCAAATGCATTACCCGCA
TAAATGGGGCGGCAACAAAGCTGCTGTTATCCACAATTTCCGTCAAATCAGAAATTTGCGGT
ACGTCTAATAAGGCTGTACGCGGGGCAAAAGGTTTTTACCGAATGTGGTTGCCGTTGCT
GCAACATAGCGGTAATCGGCGGCCAATTTAACAAACGAGCGGAGCCAACTCTTCAGCCAAA
CCTTCGGCATAATGAGCAGCATTCGAACCAAACTTTTTTACCCTCGCTACTTGCTTC
GCGAATTCCACTACAGCAGATGCGCGGTTTCCGGCAACCAATAAATCGACTTTGCCAGT
TTGGCGGCGAGCGGTAACAGCATGCAAAGTGGTAGGATTCAACTGTTGTTGTCGTGTTG
ACAATAATCAATACACTCATTTAGCCTCCTCAAATCACTTTGGCTTCGTTTTTCAATTT
TTCAACCAATTCGGCAACGCTTGCTACTTTTACGCTGCGTCAGCGCCTTAGGTTCCGG
AAATTTTACCCTTTTCAAACGAGGTGAAATGTGCGCAACCAATCGTCAGGAGTCAGTTT
TTCCAAAGGTTTTTTCTTTCGCGCCATAATATTGGGGAGTTTGACAAAGCGCGGCTCGTT
CAAACGCAATCCGCGAGTGATAACAGCAGGCAAGTTTCAATGCGATGGTTTTCTTCGCGCC
ATCGATTTCCCGCACATACTGCACCTTCGTGCGCTTCAATTTGTACTTTGGACGCGAACGT
ACCTTGCGCGCATTACGCAAAAGCTGCCAGCATTTCGCGCACTTGATTGGCATCATCATC
AATCGCTTGTTCGCCAAAAAGAAATTTGCGGATTTTCTTTGTCGCAACGGCTTTCAG
CAACTTAGCAACGGCAAGAGACTCCAGTTTAGTATCGGTTTCAACATGAATGGCAGGTC
GGCACCCATCGCCAAAGCTGTACGCAAGGTTTCTTCGCATTTTTTCTACCCAAAGAAAC
CGCTACGATTTTCGCTTACTTTTCGCGCTTCTTTCAAACGGACAGCTTCTTCCACAGCGAT
TTCGTCAAACGGATTACATCGACATTTTGACATTGCCGATATCCACATCCGAACCATCGGC
TTTTACACGAACCTTGACGTTGTAGTCCACTACGCGCTTTACTGCGACAGTGCTTTCAT
TGAACCTCCTAAAAAGACGCTGCTTTACCATCCAGCGAAACCAACCTTCTTCCCTA
TAAACCAAAATCCGTTTTTCCTTAAAAACGAATTCATTCAAAAATCTTTCGATAATGCTT
GCCGATTATACCATTTTAAAGCATTTACTCAGACTAGCGGATATACATTCCTGTATCTA
ATAAATTGGAATAATCATGCGCCATATCAGTTTTAGACGACCTTTAGCCTTTATCTG
CTGCAACACAATCCATCAGCGCTTGATAAACCAATCTGCGGTGCGAATCTGCCCGATAT
TGCCCAAATTTTTTGAATTTGGCGAAACCTGAACGCTGTTTTAATCGGATCGGTATCGG
TATAAATGCCGACCACAGGTTTTTCCAAGGCATTGCCAAATGCAGCAACCGGTATCCA
CGCCGACAATTCGACCGCGTATTTCAGCAGATACGCTGCCTGCAATAAATTTATTTGT
CGCACACAATAGCAACGGCAGCCCATCTGCAATTTGTTTGGCACGCGTTTTTTCATCTT
CATTTTCCCAAGGCAAGTAAATATTGCATTGCTGTTCTTCACTTCACTTTTGCAGCAACG
ACCGCCAGTTTTTCCACAGGCCATAACTTACTGTCCGCACTGGTCGCATGCAAGCCGCAT
AATACGGCTGCGCTAAATTTTTTTCAGACGCGCTGCTTCAGGAACAGTCAAGCCAAATACCT
CGGTTTTCCGGCATTACATACCCAAATACTTGGGCAACAGTTTACGGTTGCGCCAAACGG
CATTTTTTCCCTTCGGTACAGCGTATGTTTTTACATACGCCAAAGCAGCCATCCCTCGC
GCGCACTGTTTTATCCAAACCAAAATCGGGGATTTTGCCATTTAGCGAAACACGCGC
TTTTAATCAGACCTTGACTGTCCAATACGAAATCAAATACTTCTGCGCCAAAGTCTGTT
TCAGATGACCCATTTCCCGCAAGTTTCAGCCGAAAGAGATGTTTGGCCATTGCGCGC
ATTTTCATCAGATGGATTTTTTTTACAAACGGATGCAAGGCGCGCAATATCTGCAATCCAG
CCTCACATAGCCAATGCAGTTCTACATCAGGACATTGTGCGGCCAAATCTTCGATTGCGG
GCAAGGTGTAATTAATCGCCCATACTAGACAAGCGGACAAGCAAAATTTTCATATTTA
GGAAGGGGGTTTACGTAACAATTTTAACTTATTGATTATTAATATATTTATTTATTT
CATCAGCGTTTTTAAAGTATTGCCCCAGCAGAAATGCATTTCTGCCATGCTGTTTCGA
TGGTTTTCCGGCGCAATACCCCGACAAGCCGCTTCATTGACGACAACCTGCCAACGCGC
CTTTGAGTAAGTCAAAACCGTTGTTTTAACACAATAATCCGTAGCTAACCACCGATAA
TAACCGTATCCGTATTTTGAACAGCAGCCATTCAATCAGCCCTGTGCTTAGTTTTTCTT
CAATATCGTGAAACACGCGCGTAAGGATGCAATTCAGGATCAACACCTTTCCAAACGC
AATAATCGTATCTTTTACGAGAAGGCGAGCCGTCCTCAATAATTATAGCCGCGCGTACCGA
CCATCGCATGAGCCACCAAGTCAAATCCGCATCAGGCAACCTGTGCGGTTCAACATAT
CAACAGGGTTATCCACAAGCCATTTTCGTACCATATGATGCGCATCTTTTCGTATCACGC
GCAATCCGCGCAAGCGGCTTGCGCATTCACCTCCTCGCAATCAAATGCCCTCGTTTCA
CGGGCAGTTTCGTACGACACAGTGGCGTAAACGTTTTTTTGTGCATCAACATCAATGGA
CAATCATCTCATTTTCAACGCGATTAAATGCCCTGTATTATAACAAATTAAGTCCCA
AAAGCGGTAAACCGGATTGTGATAAGATAAGGTTTTTCCAAAAACTTATCCACAACCTT
ATGACTTATACCATACCCCCATCGGCACCGCGCTCGCCCTACAAACAGAAATTCGGC
ATCGCCCGCAGCCCGGTTTGGTCTCGCGCGCAAGCCTGCATCGAGCTGAATCCCAA
TTCACCGCAGACAGCGTGGCGGGCTGGAAGATTTCGATTATGTGTGGATAAGTTTTATT

Appendix A

-505-

TTTCACGGCGTATTGGATGAAGGCTGGGCGCAAATGGTGGCGCCGCCACGGCTCGGCGGC
AAACAAAAAATGGGCGTGTTCGCCACGCGCAGCCCCACCGCCCCAACCATCTCGGACTC
TCGCTCCTGAACTCGAACGCATCGAAACCGGCAAACCCGTCGCCCTCTATTGCAGCGGC
GCAGACCTGCTGGACGGGCACACCGATTGTGGACATCAAACCTTATATCCCCCTTTGTGAA
TCCAAACCCGATGCCGCATCCGGTTTCGTAGCGGCAAACCCGTAGAGTTGGAAGTCGTT
TGGCAGGAAAACATCGGCGCGGAAAATTTATCTGCAAAACCAAACCTTATCAGCCAA
AGCATTGCCCAAGATCCGCGCCCCGCTATCAGAATATCCCGAACGGATTATGTGATG
AATATTGCAGATTACGAAGTCAGATTTCAAATCGAGGAAAACCGTGCAACCGTTATTGAT
CTTTCCCAACCCCGCTTTAAATCGGGCAAATCCGGTTTGGCCCATAGCAGTTGAAC
AAACGGCTGTTGTTTGGTTCGCCATAAGCCGCAATATCAAGTTATAGCGGATTAAATTTAA
ATCAGGACAAGGCAACGAAGCCGAGACAGTACAAATAGTACGGCAAGGCGAGATAACGC
CGTACTGTTTAAATTTAATCCACTATACAGATAAACAATGCCGTCTGAACGCAATGTGT
TCAGACGGCATTTACTTATCCACAGGTTTGTTCAGCCTTAGATTTTGCCTGCGAAGTAT
TCCAAAGTGGCGGAGTGGCAGGTGTAGGACATTTCTGTTGTCTGACAGGCAACGGTT
TTCACCAATTGTTTGGCGCCACGGTCATCAGCGGGTTTGGGTGCGATCGAAGAGCGAG
CCGTATTCGATGCCGACAACGTCGGAAGAACGATTGATCTTCTGTTAGCCGTAAGAT
TCGCTGGCGGGCGCTTTCATCGCGCGCTTGAATTTCTTGGTTACAGGGCGTTTCGAGG
ATGGAACCAATTCCGGTCAGCGAGCCGCTGGCAACAGGGACGCGTTGGGCGGAGCCGTCG
AGTTTGGCGTTCAATTCCGGGATAACAGACCGATGGCCTTGGCGGCACCGGTGCTGTTG
GGCAGCATGTTGAGCGCGCGGCTCGGGCGCGCGCAAATCGCCTTTGCGGTGCGGCGCG
TCAAGGTGTTTGGTTCGCGCGGTAGGCGTGGATGGTGGTCATCAGACCTTCGACTACG
CCGAACCTTTTTGCGAGGACTGCCCCATCGGGCAAGGCAGTTGGTGGTGCAGGAAGCG
GCGGAGATAACGGTTTCGTGCGCTCCAAATGTCTTGGTTACGCCATATACGACGGTT
TTCACATCATTTCCCGCGGGTCGGAATCAGACTTTGCGCGCGCGGCCCTGATGTGT
GCTTCGGCTTTGGTTTATTTGGTAAAGAAGCCGGTACATTTCGAGGATGACATCCACACCC
AACTCGCCCCAAGCAATTCTTCGGGATTTCGGATTGGCAAAAACCTTGTATCTTTGCCG
TTTACCAGATGGCATCGTCTTTAATTCGGCAGTACCTTGGAAACGGCCTTGTGTGCTG
TCGTATTGAAAAGGTGCGACGACATTTTCGGCAGGGGTGAGTGGTGGTTCAGCGCAGACT
TCGATGTCGTGGGCTTTTTCAATTGACGCAATGCGAGGCGGCCGATGCGGCCGAAACCG
TTAATCGCTACTTTAATGCTCATGTATATACTCCAGCTGTGAAACGAAATTTCAATACC
TGATTTGATTTGAAATAAAGTTACATTCCACTATTACATCTAACTACTTCCCGCTTAT
TTGATATAGATGAATTTTACTGTTTGCACAGATTTCAAAACCTTTTACCATCAATATTG
AATTTAAATTTTAAATGATGATTTTGATGATTGCCAACCTGCTTGTGCGTAAGTAGCAA
TATCCAATATTTTACCTTTTTGTCAAATAAGTTTGAAGTTTAAAGCTTGTGTATATA
GACAGATAAGCGGTGATGTTTGTGACTTAATAATATTTCTGTGGATAACTTGTGCTGTTT
TCCTAGTTGTCTCCACAACCTTATGACAGGCTTACGGTCAGTCTCATTCCGTCGAAGAC
AAAACCTTTTGTGACAAATACCGTTTCTTAATGATAAGGCGACCCCATGTCCAAATCCGC
CGTTTCCCAATGTCGACGATAACCTCGGCATCAAAGCGCAACATACCGACAAACTGGT
GTTTTACCGTATGGCGGATTTTACGAGATGTTTTTCGACGATGCGGTAGAAGCGGCAAA
ACTTTTGGATATTACCTGACCACGCGCGGACAGGTGGATGGCGAGCCGGTCAAAATGGC
AGGCGTGCGCTTTCACGCCGCGGAACAATATCTGGCGCGCTTGGTCAAGTTGGGCAAAAG
CGTGGCGATTTCGGAACAGGTGCGCGAAGTCGGCGCGGGCAAGGGCCTGTGGAGCGCAA
AGTCGTGCGCATCGTAACGCCGCGCACGCTGACCGATTCCGCATTGCTGGAAGACAAGGA
AACCAACCGCATCGTTGCCGTGTCCCCGACAAAAAATACATCGGTTTGGCGTGGGCATC
GCTGCAAGCGCGGGAATTAACAAACCAAGCTGACAACCTGTGATAAATGGACGACGAAC
GGCGCGCTGCAGGCGGCGGAATTTCTGTTGCTGACAGTAAAAACGCACCGCAACTTCA
GACGGCATCGGGTGTACGCGCTGAAACGCTGGCAGTTTCCCGCGGACGCGGGGGAAAA
ACTGCTGACGGAATATTTCCGCTGCCAGGATTTCGCGCGCTTCCGTTTGGACGGCAAGA
ACACGCCGTGCGGATTGGCGCGGCGAGGTGCACTGTTGAATATATCCGCTGACGCAAAA
CCTGATGCCGCAACATTTGGACGCGCTGTGCTCGAAACCGACAGCCAATATATCGGTAT
GGATGCCGCCACGCGCGCAATCTCGAAATCAGCAAAACCTCTCCGGCAAAAATCGCC
GACCTGATGTCACGCTGACGCTTTCGCTACCCATATGGGCGAGCGCCTTTCGCTCT
CTGGCTGCACCACCTTTACGCAACCGCGCCACATCCGAGCGCGCAAGAAGCCGTTGC
CGCGCTGGAAGCAATACAAACCCCTCCAGTGCCGTCTGAAAAGCATTGCGGACATCGA
ACGATACGCCCGCGGATTTCGCTGGGTAAACGCCGCGCGCGACCTCGCCGCGCTGCG
CGACAGCCTGTTTGCCTGTCCGAAATCGAATTGTCCGCGGAGTGCAGCAGTCTCTTAGG
AACCTCAAAGCGTTTTCCCGGAAAACCTATCCACAGCCGAACAGCTCCGCCAAGCCAT
TTTGGCCGAACCTTCGCTGCTGAAAGACGGCAATGTCATCAACCACGGTTTTCATCC
CGAATGGACGAATTGCGCCGATTCAAAACCATGGCGACGAATTTTGTGATTTGGA
AGCCAAGGAACGGAACGTACCGTTTGTCCACACTTAAAGTCGAGTTCAACCGCGTTCA
CGGCTTTTACATTGAATTGTCAAACCCCAAGCCGAACAAGCACCTGCCGACTACCAACG
CCGGCAAAACCTTTAAAAACGCGCAACGCTTTCATCAGCGCGGAACCTGAAAGCCTTTGAAGA
CAAAGTGCTGACTGCTCAAGAGCAAGCCCTCGCCTTAGAAAAACAACCTTTTACGGCGT
ATTGAAAAACCTTCAGACGGCATTTGCCGAGCTTCAAAAAGCCGCAAGCCGCGCGCG
GCTGGAGGTGTTGCTCCACTTTTACGCTTGGCAAAAGAGCGGAACCTTCGTCGCGCCGA
GTTTGGCGACTATCCGTTTATCCACATCGAAAACGGCGGCCATCCGTTTGTGAAACAGCA
GGTACGCCACTTACCAGCAACACACCGACCTTGACCAAAAACACCGCCTCATGCTGCT
CACCGGCCCCAATATGGGCGGCAATCCACCTACATGCGCAAGTCGCGCTGATTGTTTT
ATTGGACACACCGGCTGTTTTGCTGCGGATGCCGCCACAATCGGGCCCATCGATCA
AATCTTACCCGCATCGGCGCATCGGACGACCTCGCCTCCAACCGCTCCACTTTCATGGT
CGAAATGAGCGAAACCGCCTACATCTGATCAGCCACCGCAAAAGCCTTGTTTTAAAT
GGACGAAGTCGGAGCTGTGTTTCACTTTCGACGCGCTCGCCCTCGCGCACGCGGTTGC
CGAACACCTGCTGCAAAAAAACAATCCTTACGCTGTTTGTACCCACTATTTTCAGCT
GACCTACCTGCCCGAAGCCACACCGCGCGCTCAATATGACCTTTCGCGCTCGAACA
GGGACAGGACATCGTTTCTGCAACCAATCAACCGGGTCCCGCGGTAAAGCTACGG

Appendix A

-506-

CATTGCCGTCGCCAACTCGCCGGCCTGCCTGTACGCGCATTGAAATCCGCCCCAAAGCA
TTTGAACGGACTGGAAAACCAAGCCGCGCGAACCCTCCCCAACTGGATATTTTCAGTAC
CATGCCGTCTGAAAAAGGAGATGAACCGAATGTGGGCAACTTTGTGGATAAAGCAGAGGA
AAAACATTTTGAAGGTATATTGGCAGCAGCCTTGGA AAAACTCGATCCCGACAGCCTGAC
CCCGCGCGAAGCATTGTCAGAACTGTACCGTCTGAAAGATTTGTGCAAATCCGTATCTTA
ATTTCCGTTGTTCGGAACAGCATCAAACCATATGGAAAAATCTGTGGATAAACATTATCTG
ACAGGAAATTTCCAAACATAAAAAATGCCGTCCGAACAGCTCAGACGGCATCCGTCCATT
CGGCT

Appendix B

-1-

Appendix B

NMB Open Reading Frames

NMB0001 acetyltransferase, putative 491 3
NMB0002 hypothetical protein 890 498
NMB0003 glutamyl-tRNA synthetase 2305 914
NMB0004 EpiH/GdmH-related protein 3154 2513
NMB0005 arsenate reductase 3504 3154
NMB0006 thioredoxin-related protein 3628 4304
NMB0007 cell division ATP-binding protein FtsE 4304 4951
NMB0008 cell division protein FtsX, putative 4951 5865
NMB0009 BofA/YrbA family protein 5959 6204
NMB0010 phosphoglycerate kinase 7485 6277
NMB0011 UDP-N-acetylglucosamine 1-carboxyvinyltransferase 8819 7569
NMB0012 conserved hypothetical protein 10310 9342
NMB0013 conserved hypothetical protein 10792 10346
NMB0014 3-deoxy-D-manno-octulosonic-acid transferase 12104 10836
NMB0015 6-phosphogluconate dehydrogenase, decarboxylating 13615 12170
NMB0016 hypothetical protein 13911 14144
NMB0017 UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase 16137
15217
NMB0018 pilin PilE 17734 17225
NMB0019 pilS cassette 18932 18513
NMB0020 pilS cassette 19646 19263
NMB0021 pilS cassette 20297 19914
NMB0022 pilS cassette 21157 20894
NMB0023 pilS cassette 21882 21466
NMB0024 pilS cassette 22474 22061
NMB0025 large pilS cassette 23489 22821
NMB0026 pilS cassette 23868 23594
NMB0027 FKBP-type peptidyl-prolyl cis-trans isomerase 24226 23900
NMB0028 hypothetical protein 24522 24307
NMB0029 glycerate dehydrogenase 24644 25594
NMB0030 methionyl-tRNA synthetase 27729 25675
NMB0031 glucosamine--fructose-6-phosphate aminotransferase (isomerizing)
29683 27848
NMB0032 hypothetical protein 29959 30483
NMB0033 membrane-bound lytic murein transglycosylase A, putative 32229
30907
NMB0034 conserved hypothetical protein 32440 33276
NMB0035 conserved hypothetical protein 33276 34439
NMB0036 conserved hypothetical protein 34706 35968
NMB0037 phnA protein 36372 36046
NMB0038 UDP-N-acetylglucosamine pyrophosphorylase 37817 36450
NMB0039 hypothetical protein 38144 37875
NMB0040 hydrolase, putative 38850 38140
NMB0041 ABC transporter, periplasmic solute-binding protein 38909 39907
NMB0042 conserved hypothetical protein 40004 40849
NMB0043 conserved hypothetical protein 40878 41360
NMB0044 peptide methionine sulfoxide reductase 43033 41468
NMB0045 signal recognition particle protein 43179 44441
NMB0046 hypothetical protein 44451 44672
NMB0047 conserved hypothetical protein 45072 45353
NMB0048 conserved hypothetical protein FRAMESHIFT 47969 48109
NMB0049 pilC2 protein FRAMESHIFT 48116 51279
NMB0050 conserved hypothetical protein 55173 53026
NMB0051 twitching motility protein 56685 55462
NMB0052 twitching motility protein PilT 57891 56851
NMB0053 conserved hypothetical protein 58011 58694
NMB0054 hypothetical protein 58697 59101
NMB0055 pyrroline-5-carboxylate reductase 59153 59941

Appendix B

-2-

NMB0056 DnaK suppressor protein 60091 60504
NMB0057 hypothetical protein 66347 66700
NMB0058 hypothetical protein 66731 66885
NMB0059 dnaJ protein 66972 68090
NMB0060 conserved hypothetical protein 68289 70304
NMB0061 dTDP-6-deoxy-L-lyxo-4-hexulose reductase FRAMESHIFT 70923 69924
NMB0062 glucose-1-phosphate thymidyltransferase 71828 70965
NMB0063 dTDP-D-glucose 4,6-dehydratase 72958 71894
NMB0064 UDP-glucose 4-epimerase 74093 73077
NMB0065 hypothetical protein 74476 75399
NMB0066 rRNA adenine N-6-methyltransferase 75687 76418
NMB0067 polysialic acid capsule biosynthesis protein SiaD, truncation
77283 76609
NMB0068 polysialic acid capsule biosynthesis protein SiaC 78416 77370
NMB0069 polysialic acid capsule biosynthesis protein SiaB 79103 78420
NMB0070 polysialic acid capsule biosynthesis protein synX 80240 79110
NMB0071 capsule polysaccharide export outer membrane protein CtrA 80375
81547
NMB0072 capsule polysaccharide export inner-membrane protein CtrB 81565
82725
NMB0073 capsule polysaccharide export inner-membrane protein CtrC 82728
83522
NMB0074 capsule polysaccharide export ATP-binding protein CtrD 83522 84169
NMB0075 transcriptional accessory protein Tex, putative 84236 86506
NMB0076 methyltransferase HphIm(C), FRAMESHIFT 86540 87539
NMB0077 site-specific DNA methylase, truncation 87529 87876
NMB0078 UDP-glucose 4-epimerase, truncation 87922 88575
NMB0079 dTDP-D-glucose 4,6-dehydratase 88694 89758
NMB0080 glucose-1-phosphate thymidyltransferase 89824 90687
NMB0081 dTDP-4-keto-6-deoxy-D-glucose-3,6-epimerase 90729 91280
NMB0082 capsule polysaccharide modification protein LipA 91308 93419
NMB0083 capsule polysaccharide modification protein LipB 93559 94815
NMB0084 conserved hypothetical protein FRAMESHIFT 95185 96587
NMB0085 sodium/glutamate symporter 96808 98019
NMB0086 hypothetical protein 98121 99134
NMB0087 hypothetical protein 99148 99342
NMB0088 outer membrane protein Pl, putative 101170 99773
NMB0089 pyruvate kinase II 102957 101488
NMB0090 IS1016 family transposase, putative FRAMESHIFT 103217 103857
NMB0091 hypothetical protein 104399 104632
NMB0092 hypothetical protein 104629 104853
NMB0093 hypothetical protein 104856 104939
NMB0094 hypothetical protein 105228 105413
NMB0095 hypothetical protein 105423 105572
NMB0096 hypothetical protein 105676 105843
NMB0097 secretion protein, putative POINT MUTATION 105860 107344
NMB0098 ABC transporter, ATP-binding protein FRAMESHIFT 107313 109396
NMB0099 hypothetical protein 109624 109484
NMB0100 hypothetical protein 109770 109627
NMB0101 IS1016 family transposase, putative FRAMESHIFT 109850 110489
NMB0102 hypothetical protein 110608 111123
NMB0103 bacteriocin resistance protein, putative 111896 111405
NMB0104 hypothetical protein 113073 112402
NMB0105 PhnO-related protein 114197 113358
NMB0106 aspartate carbamoyltransferase, catalytic subunit 114436 115353
NMB0107 aspartate carbamoyltransferase, regulatory subunit 115366 115821
NMB0108 hypothetical protein 115889 116551
NMB0109 conserved hypothetical protein 117948 116620
NMB0110 polypeptide deformylase 118018 118518
NMB0111 methionyl-tRNA formyltransferase 118608 119531
NMB0112 16S RNA methyltransferase 119613 120869
NMB0113 hypothetical protein 120892 121431
NMB0114 nitrogen regulation protein NtrY, putative 121434 123551
NMB0115 nitrogen assimilation regulatory protein NtrX 123547 124821

Appendix B

-3-

NMB0116 DNA processing chain A 124915 126105
NMB0117 smg protein, putative 126134 126592
NMB0118 DNA topoisomerase I 126667 128970
NMB0119 hypothetical protein 129741 129049
NMB0120 hypothetical protein 130312 129764
NMB0121 conserved hypothetical protein 130431 130805
NMB0122 conserved hypothetical protein 130897 131463
NMB0123 ferredoxin, 4Fe-4S bacterial type 131589 131837
NMB0124 translation elongation factor Tu 132257 133438
NMB0125 preprotein translocase subunit SecE 133638 133913
NMB0126 transcription antitermination protein NusG 133918 134451
NMB0127 50S ribosomal protein L11 134555 134986
NMB0128 50S ribosomal protein L1 134989 135681
NMB0129 hypothetical protein 135753 135893
NMB0130 50S ribosomal protein L10 135914 136411
NMB0131 50S ribosomal protein L7/L12 136472 136840
NMB0132 DNA-directed RNA polymerase, beta subunit FRAMESHIFT 137027 141208
NMB0133 DNA-directed RNA polymerase, beta' subunit 141368 145540
NMB0134 hypothetical protein 145835 146089
NMB0135 conserved hypothetical protein 146089 146235
NMB0136 30S ribosomal protein S12 146417 146785
NMB0137 30S ribosomal protein S7 146906 147373
NMB0138 elongation factor G (EF-G) 147395 149497
NMB0139 translation elongation factor Tu 149586 150767
NMB0140 30S ribosomal protein S10 150788 151096
NMB0141 transposase, truncation 151241 151603
NMB0142 50S ribosomal protein L3 151777 152418
NMB0143 50S ribosomal protein L4 152421 153038
NMB0144 50S ribosomal protein L23 153038 153349
NMB0145 50S ribosomal protein L2 153358 154188
NMB0146 30S ribosomal protein S19 154198 154473
NMB0147 50S ribosomal protein L22 154485 154811
NMB0148 30S ribosomal protein S3 154824 155513
NMB0149 50S ribosomal protein L16 155500 155913
NMB0150 50S ribosomal protein L29 155916 156104
NMB0151 30S ribosomal protein S17 156107 156367
NMB0152 50S ribosomal protein L14 156592 156957
NMB0153 50S ribosomal protein L24 156972 157292
NMB0154 50S ribosomal protein L5 157305 157841
NMB0155 30S ribosomal protein S14 157847 158149
NMB0156 30S ribosomal protein S8 158168 158557
NMB0157 50S ribosomal protein L6 158574 159104
NMB0158 50S ribosomal protein L18 159121 159471
NMB0159 30S ribosomal protein S5 159493 160008
NMB0160 50S ribosomal protein L30 160004 160186
NMB0161 50S ribosomal protein L15 160191 160622
NMB0162 preprotein translocase SecY subunit 160637 161944
NMB0163 translation initiation factor IF-1 161952 162167
NMB0164 50S ribosomal protein L36 162191 162301
NMB0165 30S ribosomal protein S13 162370 162729
NMB0166 30S ribosomal protein S11 162752 163144
NMB0167 30S ribosomal protein S4 163167 163784
NMB0168 DNA-directed RNA polymerase, alpha subunit 163813 164796
NMB0169 50S ribosomal protein L17 164823 165188
NMB0170 septum site-determining protein MinC 165338 166048
NMB0171 septum site-determining protein MinD 166079 166891
NMB0172 cell division topological specificity factor 166898 167158
NMB0173 transcriptional regulator, LysR family 167165 168082
NMB0174 valyl-tRNA synthetase 171252 168418
NMB0175 conserved hypothetical protein 172158 171352
NMB0176 D-amino acid dehydrogenase, small subunit 173595 172342
NMB0177 sodium/alanine symporter, putative 175065 173677
NMB0178 acyl-(acyl-carrier-protein)--UDP-N-acetylglucosamine O-acyltransferase 176198 175425

Appendix B

-4-

NMB0179 (3R)-hydroxymyristoyl-(acyl carrier protein) dehydratase 176734
176288
NMB0180 UDP-3-O-(3-hydroxymyristoyl)-glucosamine N-acyltransferase 177814
176771
NMB0181 outer membrane protein OmpH, putative 178347 177850
NMB0182 outer membrane protein Omp85 180806 178416
NMB0183 conserved hypothetical protein 182203 180866
NMB0184 1-deoxy-D-xylulose 5-phosphate reductoisomerase 183422 182241
NMB0185 phosphatidate cytidyltransferase 184275 183481
NMB0186 undecaprenyl pyrophosphate synthetase 185024 184281
NMB0187 ribosome recycling factor 185637 185083
NMB0188 conserved hypothetical protein 186944 185820
NMB0189 hypothetical protein 187355 187774
NMB0190 glucose inhibited division protein B 187935 188555
NMB0191 ParA family protein 188657 189427
NMB0192 ribonuclease HII 191274 190693
NMB0193 glucose inhibited division protein A 193238 191346
NMB0194 amino acid symporter, putative 194991 193567
NMB0195 pyridoxal phosphate biosynthetic protein PdxA 195133 196137
NMB0196 ribonuclease E 200197 197441
NMB0197 hypothetical protein 200321 200605
NMB0198 ribosomal large subunit pseudouridine synthase C 200690 201679
NMB0199 lipid-A-disaccharide synthase 201730 202899
NMB0200 hypothetical protein 203501 203115
NMB0201 hypothetical protein 203724 204131
NMB0202 hypothetical protein 204152 204322
NMB0203 dihydrodipicolinate reductase 205207 204401
NMB0204 lipoprotein, putative 205594 205220
NMB0205 ferric uptake regulation protein 205813 206244
NMB0206 leucyl/phenylalanyl-tRNA--protein transferase 206317 207039
NMB0207 glyceraldehyde 3-phosphate dehydrogenase 208326 207298
NMB0208 ferredoxin, 4Fe-4S bacterial type 209364 208528
NMB0209 glutathione-regulated potassium-efflux system protein 209513
211486
NMB0210 site-specific DNA methylase, truncation 212082 212401
NMB0211 L-serine dehydratase 214093 212711
NMB0212 DNA gyrase subunit B 216580 214193
NMB0213 hypothetical protein 216736 217719
NMB0214 oligopeptidase A 217810 219843
NMB0215 conserved hypothetical protein 221035 220472
NMB0216 catalase 222945 221434
NMB0217 RNA polymerase sigma-54 factor RpoN, putative 223293 224141
NMB0218 glycosyltransferase 226194 225067
NMB0219 3-oxoacyl-(acyl-carrier-protein) synthase II 227746 226502
NMB0220 acyl carrier protein 228138 227905
NMB0221 dihydroorotate dehydrogenase 228370 229374
NMB0222 hypothetical protein 229540 230010
NMB0223 hypothetical protein 230140 230355
NMB0224 glutamate-ammonia-ligase adenylyltransferase 230556 233243
NMB0225 transposase, IS30 family FRAMESHIFT 234513 233551
NMB0226 conserved hypothetical protein 235470 234781
NMB0227 conserved hypothetical protein 236771 235581
NMB0228 conserved hypothetical protein 237637 236903
NMB0229 conserved hypothetical protein FRAMESHIFT 238552 237662
NMB0230 conserved hypothetical protein 239196 238552
NMB0231 hypothetical protein 239356 239255 N
NMB0232 DNA helicase II 239380 241584
NMB0233 hypothetical protein 241663 241761
NMB0234 hypothetical protein 242111 242647
NMB0235 hypothetical protein 243052 242894
NMB0236 hypothetical protein 243168 243063
NMB0237 hypothetical protein 243535 243179
NMB0238 IS1016 family transposase, degenerate 243588 243849
NMB0239 hypothetical protein 244051 244668

Appendix B

-5-

NMB0240 hypothetical protein 244694 246142
NMB0241 NADH dehydrogenase I, A subunit 246607 246960
NMB0242 NADH dehydrogenase I, B subunit 246954 247433
NMB0243 NADH dehydrogenase I, C subunit 247449 248039
NMB0244 NADH dehydrogenase I, D subunit 248032 249285
NMB0245 NADH dehydrogenase I, E subunit 249288 249758
NMB0246 NADH dehydrogenase I, F subunit 250151 251449
NMB0247 hypothetical protein 251452 251886
NMB0248 conserved hypothetical protein 252175 252411
NMB0249 NADH dehydrogenase I, G subunit 252726 254984
NMB0250 NADH dehydrogenase I, H subunit 254990 256063
NMB0251 NADH dehydrogenase I, I subunit 256147 256623
NMB0252 hypothetical protein 256657 257361
NMB0253 NADH dehydrogenase I, J subunit 257400 258068
NMB0254 NADH dehydrogenase I, K subunit 258068 258370
NMB0255 cell filamentation protein Fic-related protein 258407 258979
NMB0256 hypothetical protein 259106 259444
NMB0257 NADH dehydrogenase I, L subunit 259496 261517
NMB0258 NADH dehydrogenase I, M subunit 261616 263109
NMB0259 NADH dehydrogenase I, N subunit 263122 264561
NMB0260 hypothetical protein 264612 264995
NMB0261 geranyltranstransferase 265863 265087
NMB0262 exodeoxyribonuclease, small subunit 266188 265967
NMB0263 conserved hypothetical protein 267358 266438
NMB0264 ABC transporter, ATP-binding protein 269219 267366
NMB0265 Holliday junction DNA helicase RuvA 269966 269385
NMB0266 conserved hypothetical protein 270374 270051
NMB0267 conserved hypothetical protein 271155 270439
NMB0268 RNA methyltransferase, TrmH family 271749 271288
NMB0269 competence protein 272539 271817
NMB0270 bioH protein, putative 272538 273284
NMB0271 hypothetical protein 273284 274069
NMB0272 hypothetical protein 274527 274820
NMB0273 hypothetical protein 274861 275283
NMB0274 ATP-dependent DNA helicase RecQ 277728 275431
NMB0275 indole-3-glycerol phosphate synthase 278575 277796
NMB0276 conserved hypothetical protein 279582 278629
NMB0277 virulence factor MviN 281255 279717
NMB0278 thiol:disulfide interchange protein DsbA 281470 282165
NMB0279 conserved hypothetical protein 283229 282228
NMB0280 organic solvent tolerance protein, putative 283431 285704
NMB0281 peptidyl-prolyl cis-trans isomerase 285809 286852
NMB0282 ribonuclease II-related protein 290243 288366
NMB0283 conserved hypothetical protein 290552 291181
NMB0284 adenylosuccinate lyase 291256 292623
NMB0285 O-antigen acetylase FRAMESHIFT 292707 294573
NMB0286 conserved hypothetical protein 295481 294870
NMB0287 probable ATP-dependent helicase DinG 297668 295521
NMB0288 hypothetical protein 297740 297967
NMB0289 deoxyribodipyrimidine photolyase, FRAMESHIFT 299363 298066
NMB0290 transcriptional regulator, putative 300264 299356
NMB0291 conserved hypothetical protein 300372 300767
NMB0292 conserved hypothetical protein 300819 301421
NMB0293 TonB-dependent receptor, putative 301610 303718
NMB0294 thiol:disulfide interchange protein DsbA 303836 304528
NMB0295 signal recognition particle protein 306232 304865
NMB0296 CcsA-related protein 306452 307255
NMB0297 hypothetical protein 307272 307367
NMB0298 hypothetical protein 307401 307583
NMB0299 comEA-related protein 313097 313540
NMB0300 hypothetical protein 313603 313904
NMB0301 Hypothetical protein 313958 314161
NMB0302 IS1016C2 transposase, degenerate 314284 314933
NMB0303 transposase, degenerate 315024 315307

Appendix B

-6-

NMB0304 class 5 outer membrane protein, degenerate 315549 315295
NMB0305 hypothetical protein 315891 315736
NMB0306 hypothetical protein 316061 316252
NMB0307 phospho-2-dehydro-3-deoxyheptonate aldolase, phe-sensitive 316403
317455
NMB0308 dihydrofolate reductase 317526 318011
NMB0309 conserved hypothetical protein 318840 318367
NMB0310 conserved hypothetical protein 319280 318855
NMB0311 hypothetical protein 319392 319634
NMB0312 virulence-associated protein VapA FRAMESHIFT 321089 323177
NMB0313 conserved hypothetical protein 323422 324885
NMB0314 hypothetical protein 326057 325092
NMB0315 conserved hypothetical protein 326135 327424
NMB0316 conserved hypothetical protein 328616 327933
NMB0317 conserved hypothetical protein 329164 328694
NMB0318 fatty acid efflux system protein 329606 330757
NMB0319 fatty acid efflux system protein 330784 332307
NMB0320 hypothetical protein 332373 332519
NMB0321 50S ribosomal protein L28 332560 332790
NMB0322 50S ribosomal protein L33 332825 332977
NMB0323 UbiH family protein 334353 333172
NMB0324 50S ribosomal protein L27 334964 334695
NMB0325 50S ribosomal protein L21 335297 334992
NMB0326 octaprenyl-diphosphate synthase 335521 336492
NMB0327 conserved hypothetical protein FRAMESHIFT 336500 336944
NMB0328 hypothetical protein 336993 337165
NMB0329 type IV pilus assembly protein 337388 339061
NMB0330 conserved hypothetical protein 339358 339152
NMB0331 kinase, putative 339983 339354
NMB0332 type IV prepilin peptidase 340845 339988
NMB0333 pilus assembly protein PilG 342151 340922
NMB0334 glucose-6-phosphate isomerase 342508 344148
NMB0335 2,3,4,5-tetrahydropyridine-2-carboxylate N-succinyltransferase
344361 345179
NMB0336 enoyl-(acyl-carrier-protein) reductase 345337 346119
NMB0337 branched-chain amino acid aminotransferase, putative 347364 346369
NMB0338 hypothetical protein 347506 347985
NMB0339 conserved hypothetical protein 347999 349165
NMB0340 lactoylglutathione lyase FRAMESHIFT 349193 349605
NMB0341 tspA protein 352407 349783
NMB0342 intracellular septation protein A 352613 353140
NMB0343 conserved hypothetical protein 353158 353433
NMB0344 BolA/YrbA family protein 353436 353711
NMB0345 cell-binding factor, putative 353763 354626
NMB0346 hypothetical protein 354700 355455
NMB0347 conserved hypothetical protein 355531 356019
NMB0348 conserved hypothetical protein 356053 357060
NMB0349 glutamyl-tRNA synthetase-related protein 358020 357136
NMB0350 hypothetical protein 358760 358311
NMB0351 transaldolase 359966 358914
NMB0352 sugar isomerase, KpsF/GutQ family 360063 361034
NMB0353 conserved hypothetical protein 361255 361788
NMB0354 hypothetical protein 361788 362366
NMB0355 conserved hypothetical protein 362350 362877
NMB0356 ABC transporter, ATP-binding protein 362924 363685
NMB0357 monofunctional biosynthetic peptidoglycan transglycosylase 364858
364160
NMB0358 shikimate 5-dehydrogenase 365670 364864
NMB0359 glutamate--ammonia ligase 365970 367385
NMB0360 AmpG-related protein 367544 368824
NMB0361 conserved hypothetical protein 368824 369096
NMB0362 hypothetical protein 369205 369282
NMB0363 hypothetical protein 369610 369744
NMB0364 FrpC operon protein 370088 370858

Appendix B

-7-

NMB0365 iron-regulated protein FrpC, truncation 370878 371150
NMB0366 hypothetical protein 372373 371243
NMB0367 hypothetical protein 372823 372440
NMB0368 hypothetical protein 373350 372895
NMB0369 hypothetical protein 373720 373334
NMB0370 hypothetical protein 374229 373855
NMB0371 hypothetical protein 374658 374254
NMB0372 hypothetical protein 375341 374667
NMB0373 hypothetical protein 375915 375559
NMB0374 MafB-related protein 377321 375921
NMB0375 mafA protein 378266 377328
NMB0376 hypothetical protein 378379 378266
NMB0377 conserved hypothetical protein 379516 378389
NMB0378 phosphate permease, putative 379807 381378
NMB0379 oxygen-independent coproporphyrinogen III oxidase 383155 381737
NMB0380 transcriptional regulator, Crp/Fnr family 383360 384091
NMB0381 cys regulon transcriptional activator 385157 384210
NMB0382 outer membrane protein class 4 385521 386246
NMB0383 hypothetical protein 386270 386494
NMB0384 hypothetical protein 386773 387066
NMB0385 thiamin-monophosphate kinase 387100 388053
NMB0386 phosphatidylglycerophosphatase A 388049 388531
NMB0387 ABC transporter, ATP-binding protein 390270 388597
NMB0388 sugar transporter, putative 390657 392009
NMB0389 aldose 1-epimerase 392016 393023
NMB0390 maltose phosphorylase 393260 395515
NMB0391 beta-phosphoglucomutase 395531 396193
NMB0392 L-aspartate oxidase 397882 396377
NMB0393 multidrug resistance protein 398266 397934
NMB0394 quinolinate synthetase A 399530 398421
NMB0395 conserved hypothetical protein 399732 400667
NMB0396 nicotinate-nucleotide pyrophosphorylase 400888 401766
NMB0397 hypothetical protein 401797 402081
NMB0398 transcriptional regulator, ArsR family 402176 402454
NMB0399 exodeoxyribonuclease III 402517 403284
NMB0400 transposase, truncated 404230 404799
NMB0401 proline dehydrogenase 409441 405839
NMB0402 sodium/proline symporter 411216 409693
NMB0403 hypothetical protein 411644 411555
NMB0404 conserved hypothetical protein 411699 412016
NMB0405 competence protein ComM 412033 413526
NMB0406 conserved hypothetical protein 413629 414495
NMB0407 thiol:disulfide interchange protein DsbA 414501 415142
NMB0408 bacitracin resistance protein 415178 415996
NMB0409 conserved hypothetical protein 417783 416575
NMB0410 conserved hypothetical protein 418062 418514
NMB0411 conserved hypothetical protein 418514 419497
NMB0412 cell division protein FtsL-related protein 419491 419757
NMB0413 penicillin-binding protein 2 419821 421563
NMB0414 UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase
421591 423066
NMB0415 conserved hypothetical protein FRAMESHIFT 423092 424736
NMB0416 UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate--D-
alanyl-D- alanyl ligase 424864 426228
NMB0417 hypothetical protein 426234 426407
NMB0418 phospho-N-acetylmuramoyl-pentapeptide-transferase 426657 427736
NMB0419 conserved hypothetical protein 427865 428458
NMB0420 UDP-N-acetylmuramoylalanine--D-glutamate ligase 428545 429879
NMB0421 cell division protein FtsW 430062 431330
NMB0422 UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide)
pyrophosphoryl-undecaprenol N-acetylglucosamine transferase
431337 432401
NMB0423 UDP-N-acetylmuramate--alanine ligase 432559 433965
NMB0424 D-alanine--D-alanine ligase 434081 434992

Appendix B

-8-

NMB0425 cell division protein FtsQ 435006 435710
NMB0426 cell division protein FtsA 435799 437040
NMB0427 cell division protein FtsZ 437162 438337
NMB0428 conserved hypothetical protein 438479 439786
NMB0429 hypothetical protein 440162 440263
NMB0430 carboxyphosphoenolpyruvate phosphonmutase, putative 440412
441287
NMB0431 methylcitrate synthase/citrate synthase 2 441376 442527
NMB0432 conserved hypothetical protein 442683 443468
NMB0433 aconitate hydratase 1 443549 446152
NMB0434 conserved hypothetical protein 446958 448124
NMB0435 acetate kinase 448541 449737
NMB0436 conserved hypothetical protein 450078 450716
NMB0437 conserved hypothetical protein 451289 450849
NMB0438 hypothetical protein 451463 451828
NMB0439 conserved hypothetical protein 451876 453027
NMB0440 prephenate dehydrogenase, putative 453959 453090
NMB0441 nitrilase 454044 454853
NMB0442 opacity protein FRAMESHIFT 455681 454888
NMB0443 transposase, IS30 family 456456 457418
NMB0444 conserved hypothetical protein 457979 458830
NMB0445 bicyclomycin resistance protein, putative 459352 460581
NMB0446 chorismate mutase/prephenate dehydratase 460662 461747
NMB0447 DNA repair protein RecO 461787 462575
NMB0448 pyridoxal phosphate biosynthetic protein PdxJ 462602 463327
NMB0449 hypothetical protein 463482 463703
NMB0450 hypothetical protein 463968 464411
NMB0451 hypothetical protein 464424 465188
NMB0452 holo-(acyl-carrier protein) synthase 465391 465765
NMB0453 mutT protein 465850 466656
NMB0454 hypothetical protein 466652 467071
NMB0455 conserved hypothetical protein 467123 468262
NMB0456 N-acetylmuramoyl-L-alanine amidase 469573 468326
NMB0457 conserved hypothetical protein 470031 469573
NMB0458 glutamate racemase 470233 471042
NMB0459 conserved hypothetical protein 473202 472096
NMB0460 transferrin-binding protein 2 475573 477708
NMB0461 transferrin-binding protein 1 477798 480542
NMB0462 spermidine/putrescine ABC transporter, periplasmic
spermidine/putrescine-binding protein 483195 481819
NMB0463 30S ribosomal protein S20 483261 483521
NMB0464 phospholipase A1, putative 483685 484830
NMB0465 conserved hypothetical protein 484976 485674
NMB0466 aspartyl-tRNA synthetase 485735 487540
NMB0467 hypothetical protein 487694 487975
NMB0468 biosynthetic arginine decarboxylase 488145 490034
NMB0469 agmatinase 490136 491056
NMB0470 C4-dicarboxylate transporter 491257 492720
NMB0471 conserved hypothetical protein 494006 492933
NMB0472 8-amino-7-oxononanoate synthase 494229 495368
NMB0473 conserved hypothetical protein 495381 496025
NMB0474 biotin synthesis protein BioC, putative 496016 496795
NMB0475 hypothetical protein 497063 498451
NMB0476 hypothetical protein 498457 499551
NMB0477 conserved hypothetical protein 499566 500099
NMB0478 hypothetical protein 500104 500745
NMB0479 conserved hypothetical protein 500771 501127
NMB0480 TspB-related protein 502193 501801
NMB0481 hypothetical protein 502509 502180
NMB0482 hypothetical protein 502900 502625
NMB0483 Hypothetical protein 503191 502910
NMB0484 hypothetical protein 503396 503202
NMB0485 hypothetical protein 503691 503404
NMB0486 conserved hypothetical protein FRAMESHIFT 505078 503739

Appendix B

-9-

NMB0487 hypothetical protein 505244 505152
NMB0488 hypothetical protein 505800 505309
NMB0489 hypothetical protein 506682 505804
NMB0490 PspA-related protein 507809 506910
NMB0491 hypothetical protein 508744 508304
NMB0492 hypothetical protein 509383 509063
NMB0493 hemagglutinin/hemolysin-related protein 517494 509386
NMB0494 DNA helicase, truncation 518107 517625
NMB0495 replication protein 519187 518207
NMB0496 hemolysin activator-related protein 519134 520810
NMB0497 hemagglutinin/hemolysin-related protein 520922 526826
NMB0498 hypothetical protein 526836 527342
NMB0499 hypothetical protein 527471 529090
NMB0500 hypothetical protein 529102 529476
NMB0501 hypothetical protein 529757 530128
NMB0502 hypothetical protein 530166 532115
NMB0503 hypothetical protein 532134 532562
NMB0504 hypothetical protein 532780 532992
NMB0506 hypothetical protein 533691 535208
NMB0507 hypothetical protein 535208 535693
NMB0508 hypothetical protein 535883 536152
NMB0509 hypothetical protein 536335 537114
NMB0510 hypothetical protein 537136 537396
NMB0511 hypothetical protein 537506 539425
NMB0512 hypothetical protein 539437 539856
NMB0513 hypothetical protein 539896 540294
NMB0514 hypothetical protein 540420 540656
NMB0515 hypothetical protein 540656 541036
NMB0516 hypothetical protein 541042 541974
NMB0517 hypothetical protein 542172 542020
NMB0518 hypothetical protein 542486 542734
NMB0519 hypothetical protein 542725 542925
NMB0520 hypothetical protein 542931 543107
NMB0521 hypothetical protein 543492 543947
NMB0522 transposase, truncated 543958 544080
NMB0523 ABC transporter, ATP-binding protein, truncation 544162 544441
NMB0524 ribonuclease BN, putative 545691 544474
NMB0525 aluminum resistance protein, putative 546236 546892
NMB0526 hypothetical protein 546923 547438
NMB0527 6-pyruvoyl tetrahydrobiopterin synthase, putative 547448 547867
NMB0528 conserved hypothetical protein 548139 548507
NMB0529 conserved hypothetical protein 548507 549142
NMB0530 glycosyl hydrolase, family 3 550869 549787
NMB0531 conserved hypothetical protein 552446 550929
NMB0532 protease DO 554147 552651
NMB0533 endonuclease III 554914 554288
NMB0534 conserved hypothetical protein 555373 554963
NMB0535 glucose/galactose transporter 555906 557183
NMB0536 Na⁺/H⁺ antiporter 557477 558853
NMB0537 conserved hypothetical protein 559809 558988
NMB0538 conserved hypothetical protein 560326 559820
NMB0539 porphobilinogen deaminase 560445 561377
NMB0540 aspartate aminotransferase 562977 561787
NMB0541 hypothetical protein 563556 563062
NMB0542 hypothetical protein 563672 563872
NMB0543 L-lactate permease, putative 565630 564047
NMB0544 conserved hypothetical protein 566621 565902
NMB0545 conserved hypothetical protein 566870 570352
NMB0546 alcohol dehydrogenase, propanol-preferring 571566 570523
NMB0547 type IV pilin protein 572238 571852
NMB0548 AcrA/AcrE family protein 572464 573639
NMB0549 ABC transporter, ATP-binding protein 573708 575639
NMB0550 thiol:disulfide interchange protein DsbC 576837 576058
NMB0551 primosomal protein n' 576975 579161

Appendix B

-10-

NMB0552 hypothetical protein 580284 579214
NMB0553 transposase, putative, POINT MUTATION 581288 580335
NMB0554 dnaK protein 584451 582526
NMB0555 hypothetical protein 584931 584662
NMB0556 repressor protein, putative 585119 585802
NMB0557 conserved hypothetical protein 585937 586272
NMB0558 hypothetical protein 586435 586896
NMB0559 ubiquinone biosynthesis protein AarF 586934 588442
NMB0560 serine acetyltransferase 589620 588805
NMB0561 grpE protein 589804 590379
NMB0562 conserved hypothetical protein 590874 590662
NMB0563 thiamine biosynthesis lipoprotein ApbE 591955 590903
NMB0564 Na(+)-translocating NADH-quinone reductase, subunit F 593325
592111
NMB0565 Na(+)-translocating NADH-quinone reductase, subunit E 593932
593342
NMB0566 Na(+)-translocating NADH-quinone reductase, subunit D 594562
593939
NMB0567 Na(+)-translocating NADH-quinone reductase, subunit C 595338
594565
NMB0568 Na(+)-translocating NADH-quinone reductase, subunit B 596563
595334
NMB0569 Na(+)-translocating NADH-quinone reductase, subunit A 597909
596569
NMB0570 hypothetical protein 599680 598262
NMB0571 conserved hypothetical protein 600400 600044
NMB0572 hypothetical protein 601002 600400
NMB0573 transcriptional regulator, AsnC family 601612 601052
NMB0574 glycine cleavage system T protein 602042 603139
NMB0575 glycine cleavage system H protein 603304 603687
NMB0576 glutamyl-tRNA reductase 603842 605086
NMB0577 NosR-related protein 605365 605934
NMB0578 copper ABC transporter, periplasmic copper-binding protein 605991
607022
NMB0579 copper ABC transporter, ATP-binding protein 607083 607700
NMB0580 protein disulfide isomerase NosL, putative 607842 608333
NMB0581 electron transfer flavoprotein-ubiquinone oxidoreductase 610085
608427
NMB0582 bacteriocin resistance protein, putative 610757 610218
NMB0583 IS1016C2 transposase 612651 611986
NMB0584 FrpC operon protein 613242 614054
NMB0585 iron-regulated protein FrpA, putative 614074 617979
NMB0586 adhesin, putative 619176 618265
NMB0587 membrane protein 620128 619256
NMB0588 ABC transporter, ATP-binding protein 620907 620155
NMB0589 50s ribosomal protein L19 621563 621201
NMB0590 tRNA (guanine-N1)-methyltransferase FRAMESHIFT 622329 621582
NMB0591 16S rRNA processing protein RimM 622838 622332
NMB0592 30S ribosomal protein S16 623099 622857
NMB0593 conserved hypothetical protein 625570 623147
NMB0594 sensor histidine kinase 627094 625691
NMB0595 DNA-binding response regulator 627785 627111
NMB0596 hypothetical protein 629789 627978
NMB0597 hypothetical protein 630132 629782
NMB0598 Maf/YceF/YhdE family protein 630749 630144
NMB0599 conserved hypothetical protein 631572 630805
NMB0600 hypothetical protein 632272 631589
NMB0601 conserved hypothetical protein 632479 632279
NMB0602 hitA protein 632849 632529
NMB0603 phosphoribosyl-ATP cyclohydrolase 633244 632924
NMB0604 alcohol dehydrogenase, zinc-containing 634449 633388
NMB0605 histone deacetylase family protein 636107 635001
NMB0606 conserved hypothetical protein 636235 636498
NMB0607 protein-export membrane protein SecD 636710 638563

Appendix B

-11-

NMB0608 protein-export membrane protein SecF 638570 639502
NMB0609 30s ribosomal protein S15 639728 639994
NMB0610 spermidine/putrescine ABC transporter, ATP-binding protein 640243
641499
NMB0611 spermidine/putrescine ABC transporter, permease protein 641518
642480
NMB0612 spermidine/putrescine ABC transporter, permease protein 642483
643367
NMB0613 hypothetical protein 643392 643496
NMB0614 oxidoreductase, putative 643496 644788
NMB0615 ammonium transporter AmtB, putative 646340 645039
NMB0616 IS1016 family transposase, degenerate 647272 646871
NMB0617 transcription termination factor Rho 648837 647581
NMB0618 phosphoenolpyruvate synthase 651441 649060
NMB0619 conserved hypothetical protein 651853 652671
NMB0620 phosphoglycolate phosphatase 653575 652916
NMB0621 conserved hypothetical protein 654440 653616
NMB0622 outer membrane lipoprotein carrier protein 654867 655487
NMB0623 spermidine/putrescine ABC transporter, periplasmic
spermidine/putrescine-binding protein 655763 656899
NMB0624 galactosyltransferase-related protein FRAMESHIFT 657035 658253
NMB0625 conserved hypothetical protein 658297 658824
NMB0626 peptide chain release factor 3 660797 659205
NMB0627 phosphoribosyl-AMP cyclohydrolase 661299 660907
NMB0628 hisF protein 662097 661333
NMB0629 phosphoribosylformimino-5-aminoimidazole carboxamide ribotide
isomerase 662847 662113
NMB0630 amidotransferase HisH 663518 662883
NMB0631 phosphate acetyltransferase Pta, putative 665151 663652
NMB0632 iron(III) ABC transporter, ATP-binding protein 666394 665339
NMB0633 iron(III) ABC transporter, permease protein 667932 666418
NMB0634 iron(III) ABC transporter, periplasmic binding protein 668995
668003
NMB0635 transposase, IS30 family 670247 669285
NMB0636 hypothetical protein 670794 670414
NMB0637 argininosuccinate lyase 672228 670855
NMB0638 UTP--glucose-1-phosphate uridylyltransferase 673116 672250
NMB0639 conserved hypothetical protein 673743 673147
NMB0640 hypothetical protein 673969 673739
NMB0641 inorganic pyrophosphatase 674610 674080
NMB0642 dATP pyrophosphohydrolase 675169 674714
NMB0643 MafB-related protein 675614 677437
NMB0644 hypothetical protein 677443 677904
NMB0645 ribonuclease FRAMESHIFT 677948 678275
NMB0646 ribonuclease inhibitor barstar 678290 678574
NMB0647 hypothetical protein 679091 680326
NMB0648 hypothetical protein 680357 680776
NMB0649 hypothetical protein 680970 681191
NMB0650 hypothetical protein 681167 681583
NMB0651 hypothetical protein 681687 682073
NMB0652 mafA protein 682199 683137
NMB0653 MafB-related protein 683144 684409
NMB0654 hypothetical protein 684415 684729
NMB0655 hypothetical protein 684867 685571
NMB0656 hypothetical protein 685600 685926
NMB0657 hypothetical protein 686024 686224
NMB0658 Hypothetical protein 686055 686312
NMB0659 hypothetical protein 686346 686744
NMB0660 hypothetical protein 686929 687315
NMB0661 bis(5'-nucleosyl)-tetraphosphatase, symmetrical/Trk system
potassium uptake protein TrkG FRAMESHIFT 689659 687362
NMB0662 ribonuclease, putative 690126 689740
NMB0663 outer membrane protein NsgA 690786 690265
NMB0664 hypothetical protein 691151 690960

Appendix B

-12-

NMB0665 oxygen-independent coprophorphyrinogen III oxidase family protein
692546 691374

NMB0666 DNA ligase 695128 692606

NMB0667 hypothetical protein 696562 695279

NMB0668 ampD protein 697352 696783

NMB0669 conserved hypothetical protein 697436 698428

NMB0670 thymidylate kinase 698491 699108

NMB0671 malate oxidoreductase (NAD) 699333 700610

NMB0672 tetraacyldisaccharide 4'-kinase 701160 702191

NMB0673 hypothetical protein 702394 702978

NMB0674 conserved hypothetical protein 703050 703229

NMB0675 3-deoxy-D-manno-octulosonate cytidyltransferase 703229 703987

NMB0676 hypothetical protein 704013 704411

NMB0677 hypothetical protein 704610 704723

NMB0678 tryptophan synthase, alpha subunit 705306 706088

NMB0679 acetyl-CoA carboxylase, carboxyl transferase beta subunit 706129
706998

NMB0680 cryptic protein 707672 707064

NMB0681 conserved hypothetical protein 707781 708002

NMB0682 dihydroorotase 708368 709399

NMB0683 N utilization substance protein B 710195 709773

NMB0684 riboflavin synthase, beta subunit 710749 710276

NMB0685 hypothetical protein 711120 710800

NMB0686 ribonuclease III 711287 712003

NMB0687 GTP-binding protein Era 712003 712974

NMB0688 N-(5'-phosphoribosyl)anthranilate isomerase 715446 714823

NMB0689 transcription elongation factor GreB 715996 715508

NMB0690 amidophosphoribosyltransferase 717640 716099

NMB0691 colicin V production protein, putative 718450 717956

NMB0692 tpc protein 719441 718446

NMB0693 folylpolyglutamate synthase/dihydrofolate synthase 720728 719457

NMB0694 folI protein 721205 720762

NMB0695 hypothetical protein 721569 721213

NMB0696 amino acid ABC transporter, ATP-binding protein FRAMESHIFT 722369
721645

NMB0697 dimethyladenosine transferase 723321 722545

NMB0698 hypothetical protein 723518 724204

NMB0699 tryptophan synthase, beta subunit 724290 725489

NMB0700 IgA-specific serine endopeptidase 731118 725674

NMB0701 hypothetical protein 731531 731280

NMB0702 competence protein ComA 732529 734601

NMB0703 competence lipoprotein ComL 735635 734835

NMB0704 ribosomal large subunit pseudouridine synthase D 735634 736755

NMB0705 transporter 737858 736914

NMB0706 conserved hypothetical protein 738418 739194

NMB0707 rare lipoprotein B, putative 739249 739725

NMB0708 DNA polymerase III, delta subunit 739730 740725

NMB0709 Hypothetical protein 740849 741265

NMB0710 Hypothetical protein 741293 741856

NMB0711 conserved hypothetical protein FRAMESHIFT 742826 741946

NMB0712 RNA polymerase sigma-32 factor 744182 743313

NMB0713 apolipoprotein N-acyltransferase, putative 746012 744441

NMB0714 conserved hypothetical protein FRAMESHIFT 746771 746019

NMB0715 Hypothetical protein 746967 747284

NMB0716 Hypothetical protein 747440 747727

NMB0717 cytochrome, putative 748209 747796

NMB0718 ferrochelatase 749572 748493

NMB0719 queuine tRNA-ribosyltransferase 750697 749585

NMB0720 threonyl-tRNA synthetase 751005 752915

NMB0721 translation initiation factor 3 752990 753454

NMB0722 50S ribosomal protein L35 753604 753798

NMB0723 50S ribosomal protein L20 753814 754170

NMB0724 phenylalanyl-tRNA synthetase, alpha chain 754519 755508

NMB0725 modification methylase HgaI-1 755694 756749

Appendix B

-13-

NMB0726 type II restriction enzyme HgaI 756755 758221
NMB0727 N-6 adenine-specific DNA methylase 758221 758868
NMB0728 phenylalanyl-tRNA synthetase, beta chain 758896 761256
NMB0729 integration host factor, alpha subunit 761333 761632
NMB0730 hypothetical protein 762257 762739
NMB0731 hypothetical protein 763002 763226
NMB0732 adenosylmethionine-8-amino-7-oxononanoate aminotransferase 763559
764857
NMB0733 dethiobiotin synthase 764857 765501
NMB0734 hypothetical protein 765519 765992
NMB0735 4-hydroxybenzoate octaprenyltransferase 766025 766912
NMB0736 PTS system, nitrogen regulatory IIA protein 767100 767546
NMB0737 HPr kinase/phosphatase, putative 767551 768510
NMB0738 conserved hypothetical protein 768494 769345
NMB0739 conserved hypothetical protein 769429 770943
NMB0740 DNA repair protein RecN 771255 772925
NMB0741 conserved hypothetical protein 775384 773948
NMB0742 conserved hypothetical protein 775684 776040
NMB0743 ubiquinone/menaquinone biosynthesis methyltransferase UbiE 776097
776831
NMB0744 hypothetical protein 777054 777530
NMB0745 2-amino-4-hydroxy-6-hydroxymethylidihydropteridine-
pyrophosphokinase 778153 777662
NMB0746 conserved hypothetical protein 778537 778166
NMB0747 conserved hypothetical protein 779157 778594
NMB0748 host factor-I 779535 779245
NMB0749 penicillin-binding protein 4 780602 779667
NMB0750 bacterioferritin comigratory protein 780923 781360
NMB0751 integrase/recombinase XerD 781415 782287
NMB0752 bacterioferritin-associated ferredoxin, putative 782462 782659
NMB0753 conserved hypothetical protein 782828 783058
NMB0754 hypothetical protein 783066 783173
NMB0755 hypothetical protein 783194 783334
NMB0756 dTDP-L-rhamnose synthase, putative 784398 783481
NMB0757 phosphoribosylaminoimidazole-succinocarboxamide synthase 784598
785458
NMB0758 polyribonucleotide nucleotidyltransferase 785695 787815
NMB0759 conserved hypothetical protein 788619 787894
NMB0760 diaminopimelate epimerase 789006 789854
NMB0761 hypothetical protein 789940 790164
NMB0762 hypothetical protein 790198 790653
NMB0763 cysteine synthase 790653 791582
NMB0764 conserved hypothetical protein 792048 792950
NMB0765 signal peptidase I 794128 793112
NMB0766 GTP-binding protein LepA 796064 794274
NMB0767 5-methylthioadenosine nucleosidase/S-adenosylhomocysteine
nucleosidase 796909 796211
NMB0768 twitching motility protein PilT 797095 798204
NMB0769 DNA polymerase III, delta prime subunit, putative 798241 799215
NMB0770 type IV pilus assembly protein PilZ, putative 799222 799569
NMB0771 conserved hypothetical protein 799577 800353
NMB0772 conserved hypothetical protein 800382 800594
NMB0773 conserved hypothetical protein 800698 801006
NMB0774 uracil phosphoribosyltransferase 801115 801738
NMB0775 hypothetical protein 801764 802081
NMB0776 conserved hypothetical protein 802335 802751
NMB0777 uroporphyrinogen-III synthase HemD, putative 802796 803533
NMB0778 uroporphyrin-III C-methyltransferase HemX, putative 803611 804882
NMB0779 hypothetical protein 804882 806102
NMB0780 hypothetical protein 806138 806575
NMB0781 uroporphyrinogen decarboxylase 806732 807793
NMB0782 DNA repair protein RadA 807982 809358
NMB0783 conserved hypothetical protein 810116 809640
NMB0784 phage shock protein E precursor, putative 810717 810361

Appendix B

-14-

NMB0785 exodeoxyribonuclease V 135 KD polypeptide 814370 810759
NMB0786 conserved hypothetical protein 815358 814453
NMB0787 amino acid ABC transporter, periplasmic amino acid-binding protein
815643 816467
NMB0788 amino acid ABC transporter, permease protein 816514 817173
NMB0789 amino acid ABC transporter, ATP-binding protein 817186 817938
NMB0790 phosphoglucomutase 819343 817964
NMB0791 peptidyl-prolyl cis-trans isomerase 820019 819513
NMB0792 transporter, NadC family 821553 820141
NMB0793 hypothetical protein 821759 821553
NMB0794 hypothetical protein 822146 821787
NMB0795 peptidyl-tRNA hydrolase 822988 822413
NMB0796 conserved hypothetical protein 823319 823044
NMB0797 conserved hypothetical protein 823749 823315
NMB0798 cell division protein FtsH 825932 823968
NMB0799 cell division protein FtsJ 826616 825999
NMB0800 conserved hypothetical protein 826726 827007
NMB0801 delta-aminolevulinic acid dehydratase 827193 828191
NMB0802 cystathionine gamma-synthase 829414 828260
NMB0803 conserved hypothetical protein 829606 830376
NMB0804 NAD(P)H nitroreductase, putative 830489 831151
NMB0805 transposase, IS30 family 831295 832257
NMB0806 conserved hypothetical protein 833050 832295
NMB0807 conserved hypothetical protein 833965 833078
NMB0808 hypothetical protein 834551 833988
NMB0809 conserved hypothetical protein 835399 834605
NMB0810 transcriptional regulator, TetR family 836104 835457
NMB0811 UDP-N-acetylpyruvoylglucosamine reductase 837156 836119
NMB0812 conserved hypothetical protein 838579 837203
NMB0813 hypothetical protein 838634 838819
NMB0814 histidyl-tRNA synthetase 838914 840062
NMB0815 adenylosuccinate synthetase 840163 841464
NMB0816 hypothetical protein 841592 841903
NMB0817 hypothetical protein 841932 842312
NMB0818 hypothetical protein 842329 842736
NMB0819 hypothetical protein 842856 843245
NMB0820 hypothetical protein 843456 843845
NMB0821 hypothetical protein 843962 844519
NMB0822 heat shock protein HtpX 845866 844826
NMB0823 adenylate kinase 845878 846522
NMB0824 orotidine 5'-phosphate decarboxylase 847051 847788
NMB0825 ADP-heptose synthase, putative 847846 848814
NMB0826 C-5 cytosine-specific DNA methylase 848854 850086
NMB0827 type II restriction enzyme-related protein FRAMESHIFT 850091
851119
NMB0828 ADP-L-glycero-D-mannoheptose-6-epimerase 851251 852252
NMB0829 type I restriction enzyme EcoR124II M protein 852329 853870
NMB0830 conserved hypothetical protein 853870 854877
NMB0831 type I restriction enzyme S protein, degenerate 855046 856216
NMB0832 anticodon nuclease 856277 857416
NMB0833 type I restriction enzyme-related protein 857416 857799
NMB0834 transposase, IS30 family 858756 857794
NMB0835 type I restriction enzyme EcoR124II R protein, putative 858832
861594
NMB0836 ATP-dependent Clp protease, ATP-binding subunit ClpA 863945 861639
NMB0837 conserved hypothetical protein 864249 863950
NMB0838 cold-shock domain family protein 864492 864692
NMB0839 pmbA protein 866323 864995
NMB0840 conserved hypothetical protein 866446 866979
NMB0841 hypothetical protein 867029 867742
NMB0842 single-stranded-DNA-specific exonuclease RecJ 867814 869511
NMB0843 polyA polymerase 869811 871169
NMB0844 hypothetical protein 871345 871665
NMB0845 PhoH-related protein 872732 871782

Appendix B

-15-

NMB0846 LPS biosynthesis protein-related protein 873905 872874
NMB0847 hypothetical protein 874235 874065
NMB0848 hypothetical protein 874369 875070
NMB0849 deoxycytidine triphosphate deaminase, putative 875703 875140
NMB0850 hypothetical protein 876185 875772
NMB0851 recombination associated protein RdgC 877146 876250
NMB0852 essential GTPase 878634 877180
NMB0853 conserved hypothetical protein 879413 878787
NMB0854 histidyl-tRNA synthetase 880709 879417
NMB0855 bacteriocin resistance protein, putative 881459 880806
NMB0856 hypothetical protein 882208 881744
NMB0857 hypothetical protein 882441 882268
NMB0858 hypothetical protein 882645 882448
NMB0859 hypothetical protein 883025 882651
NMB0860 hypothetical protein 883340 883086
NMB0861 hypothetical protein 883975 883433
NMB0862 hypothetical protein 884091 883975
NMB0863 hypothetical protein 884410 884141
NMB0864 hypothetical protein 884966 884679
NMB0865 hypothetical protein 885445 884975
NMB0866 hypothetical protein 886357 885491
NMB0867 YabO/YceC/SfhB family protein 886521 887441
NMB0868 conserved hypothetical protein 888163 887525
NMB0869 hypothetical protein 889009 888221
NMB0870 3-methyl-2-oxobutanoate hydroxymethyltransferase 889502 890290
NMB0871 pantoate--beta-alanine ligase 890416 891249
NMB0872 conserved hypothetical protein 891416 893257
NMB0873 outer membrane lipoprotein LolB, putative 893400 893978
NMB0874 conserved hypothetical protein 893991 894833
NMB0875 ribose-phosphate pyrophosphokinase 895258 896238
NMB0876 50S ribosomal protein L25 896308 896877
NMB0877 penicillin-binding protein 898174 897008
NMB0878 threonine dehydratase 898322 899845
NMB0879 sulfate ABC transporter, ATP-binding protein 900978 899908
NMB0880 sulfate ABC transporter, permease protein 901835 900978
NMB0881 sulfate ABC transporter, permease protein 902923 902090
NMB0882 hypothetical protein 903214 903543
NMB0883 conserved hypothetical protein 903878 904384
NMB0884 superoxide dismutase 905491 904907
NMB0885 replicative DNA helicase 905655 907058
NMB0886 fimbrial protein FimT 907370 908035
NMB0887 type IV pilus assembly protein PilV, putative 908056 908667
NMB0888 hypothetical protein 908667 909605
NMB0889 hypothetical protein 909587 910177
NMB0890 type IV pilin-related protein 910170 910655
NMB0891 hypothetical protein 911708 911944
NMB0892 AzlC-related protein 912795 912376
NMB0893 deoxyuridine 5'-triphosphate nucleotidohydrolase 912995 913444
NMB0894 aminotransferase, class I 913525 914709
NMB0895 conserved hypothetical protein 914975 915751
NMB0896 integrase, FRAMESHIFT 916283 917352
NMB0897 hypothetical protein 917468 917845
NMB0898 hypothetical protein 917894 918079
NMB0899 hypothetical protein 918396 918749
NMB0900 hypothetical protein 919621 920535
NMB0901 D-lactate dehydrogenase-related protein 920880 920599
NMB0902 hypothetical protein 921133 920945
NMB0903 hypothetical protein 921429 921139
NMB0904 hypothetical protein 921686 921429
NMB0905 hypothetical protein 921936 921724
NMB0906 hypothetical protein 922860 922009
NMB0907 hypothetical protein 923244 922888
NMB0908 hypothetical protein 923512 923315
NMB0909 hypothetical protein 924280 923759

Appendix B

-16-

NMB0910 transcriptional regulator 925000 924287
NMB0911 transposase, IS30 family 926382 925420
NMB0912 hypothetical protein 926526 927149
NMB0913 pemK protein 927552 927208
NMB0914 pemI protein 927790 927557
NMB0915 hypothetical protein 928640 928152
NMB0916 hypothetical protein 928799 928662
NMB0917 death-on-curing protein 929446 929081
NMB0918 hypothetical protein 929574 929446
NMB0919 IS1106 transposase, putative 930929 929973
NMB0920 isocitrate dehydrogenase 934317 932095
NMB0921 hypothetical protein 934522 934325
NMB0922 alpha-2,3-sialyltransferase 934750 935862
NMB0923 cytochrome c 936488 936033
NMB0924 oxidoreductase, short-chain dehydrogenase/reductase family 936607
937425
NMB0925 acyl CoA thioester hydrolase family protein 937925 937482
NMB0926 opacity protein 940336 939513
NMB0927 proline iminopeptidase 941840 942769
NMB0928 hypothetical protein 944025 942832
NMB0929 dihydrodipicolinate synthase 944909 944037
NMB0930 xanthine/uracil permease family protein 945369 946757
NMB0931 RNA methyltransferase, TrmH family 947574 946825
NMB0932 conserved hypothetical protein 948129 947644
NMB0933 cytidine and deoxycytidylate deaminase family protein 948580
948137
NMB0934 DNA transformation protein tfoX-related protein 948853 948625
NMB0935 tRNA delta(2)-isopentenylpyrophosphate transferase 949798 948860
NMB0936 hypothetical protein 951481 950180
NMB0937 elongation factor P (EF-P) 951788 952345
NMB0938 hypothetical protein 953235 952402
NMB0939 conserved hypothetical protein 953933 953355
NMB0940 homoserine O-acetyltransferase 955069 953933
NMB0941 50S ribosomal protein L36 955756 955634
NMB0942 50S ribosomal protein L31, putative 956031 955759
NMB0943 5,10-methylenetetrahydrofolate reductase 956231 957106
NMB0944 5-methyltetrahydropteroyltriglutamate-homocysteine
methyltransferase 957247 959520
NMB0945 hypothetical protein 959535 959696
NMB0946 peroxiredoxin 2 family protein/glutaredoxin 959802 960536
NMB0947 lipoamide dehydrogenase, putative 960788 962188
NMB0948 succinate dehydrogenase, cytochrome b556 subunit 962470 962844
NMB0949 succinate dehydrogenase, hydrophobic membrane anchor protein
962841 963179
NMB0950 succinate dehydrogenase, flavoprotein subunit 963185 964945
NMB0951 succinate dehydrogenase, iron-sulfur protein 965068 965772
NMB0952 conserved hypothetical protein 965779 966024
NMB0953 hypothetical protein 966024 966104
NMB0954 citrate synthase 966139 967419
NMB0955 2-oxoglutarate dehydrogenase, E1 component 967627 970452
NMB0956 2-oxoglutarate dehydrogenase, E2 component, dihydrolipoamide
succinyltransferase 970555 971733
NMB0957 2-oxoglutarate dehydrogenase, E3 component, lipoamide
dehydrogenase 972101 973531
NMB0958 hypothetical protein 973659 973943
NMB0959 succinyl-CoA synthetase, beta subunit 974045 975208
NMB0960 succinyl-CoA synthetase, alpha subunit 975222 976109
NMB0961 funZ protein 978267 976675
NMB0962 excinuclease ABC, subunit A 981150 978304
NMB0963 phosphatidylserine decarboxylase precursor-related protein 981305
982099
NMB0964 TonB-dependent receptor 985503 983230
NMB0965 hypothetical protein 985832 985564

Appendix B

-17-

NMB0966 para-aminobenzoate synthase glutamine amidotransferase component
II 985925 986512

NMB0967 anthranilate phosphoribosyltransferase 986579 987634

NMB0968 hypothetical protein 987644 987729

NMB0969 hypothetical protein 988030 987792

NMB0970 conserved hypothetical protein, FRAMESHIFT 988106 989527

NMB0971 hypothetical protein 989493 989780

NMB0972 hypothetical protein 989788 989982

NMB0973 hypothetical protein 989993 990274

NMB0974 hypothetical protein 990284 990559

NMB0975 hypothetical protein 990690 991004

NMB0976 TspB-related protein 990991 991383

NMB0977 modulator of drug activity B, putative 991676 992146

NMB0978 NAD(P) transhydrogenase, beta subunit 993742 992360

NMB0979 hypothetical protein 994205 993825

NMB0980 NAD(P) transhydrogenase, alpha subunit 995750 994212

NMB0981 phosphoserine phosphatase 996040 996870

NMB0982 chloride channel protein-related protein 997018 998157

NMB0983 phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP
cyclohydrolase 998324 999901

NMB0984 transposase, putative, degenerate 1000517 1001457

NMB0985 El6-related protein 1001522 1002016

NMB0986 hypothetical protein 1001997 1002425

NMB0987 N-acetylmuramoyl-L-alanine amidase, putative 1002736 1003278

NMB0988 hypothetical protein 1003278 1003478

NMB0989 hypothetical protein 1003484 1003645

NMB0990 hypothetical protein 1003859 1004260

NMB0991 IS1106 transposase 1005417 1004308

NMB0992 adhesin 1007326 1005554

NMB0993 rubredoxin 1009428 1009261

NMB0994 acyl-CoA dehydrogenase family protein 1011202 1010114

NMB0995 macrophage infectivity potentiator-related protein 1012020 1011340

NMB0996 hypothetical protein 1012411 1012043

NMB0997 D-lactate dehydrogenase 1014397 1012709

NMB0998 oxidoreductase, putative 1014921 1018751

NMB0999 NifR3/SMM1 family protein 1018935 1019933

NMB1000 IS1106 transposase, putative FRAMESHIFT 1020537 1021551

NMB1001 integrase protein, degenerate 1023183 1022614

NMB1002 hypothetical protein 1024370 1023498

NMB1003 hypothetical protein 1024711 1024418

NMB1004 hypothetical protein 1024962 1024720

NMB1005 hypothetical protein 1025179 1024958

NMB1006 hypothetical protein 1025360 1025184

NMB1007 transcriptional regulator 1025451 1025819

NMB1008 hypothetical protein 1025824 1026444

NMB1009 conserved hypothetical protein 1026440 1026631

NMB1010 hypothetical protein 1026658 1027218

NMB1011 hypothetical protein 1027252 1028196

NMB1012 hypothetical protein 1028284 1028784

NMB1013 hypothetical protein 1028801 1028971

NMB1014 conserved hypothetical protein 1029045 1029635

NMB1015 IS150 transposase, putative FRAMESHIFT 1029653 1030443

NMB1016 conserved hypothetical protein 1031794 1031192

NMB1017 sulfate ABC transporter, periplasmic sulfate-binding protein
1033574 1032522

NMB1018 conserved hypothetical protein 1034162 1033683

NMB1019 phosphoribosylaminoimidazole carboxylase, ATPase subunit 1035345
1034212

NMB1020 hypothetical protein 1035887 1035345

NMB1021 anthranilate synthase component I 1037359 1035887

NMB1022 transposase, IS30 family 1038444 1037482

NMB1023 conserved hypothetical protein 1039543 1038587

NMB1024 conserved hypothetical protein 1040502 1039639

NMB1025 conserved hypothetical protein 1040896 1040537

Appendix B

-18-

NMB1026 conserved hypothetical protein 1040971 1041447
NMB1027 dnaJ protein, truncation 1041473 1042192
NMB1028 conserved hypothetical protein 1042197 1043069
NMB1029 aspartate ammonia-lyase 1044541 1043147
NMB1030 conserved hypothetical protein 1045565 1045005
NMB1031 3-isopropylmalate dehydrogenase 1046798 1045731
NMB1032 type II restriction enzyme NlaIV 1047563 1046835
NMB1033 modification methylase NlaIV 1048850 1047582
NMB1034 3-isopropylmalate dehydratase, small subunit 1049666 1049028
NMB1035 hypothetical protein 1049982 1049731
NMB1036 3-isopropylmalate dehydratase, large subunit 1051488 1050082
NMB1037 glutamate--cysteine ligase 1051748 1053094
NMB1038 DNA repair protein RadC 1053220 1053894
NMB1039 conserved hypothetical protein 1053970 1054692
NMB1040 hypothetical protein 1054848 1056125
NMB1041 GTP-binding protein 1056133 1057308
NMB1042 cation transport ATPase, E1-E2 family 1057308 1059776
NMB1043 hypothetical protein 1059940 1060142
NMB1044 ferredoxin--NADP reductase 1061316 1060543
NMB1045 hypothetical protein 1062298 1061507
NMB1046 threonine synthase 1063753 1062347
NMB1047 hypothetical protein 1064197 1063829
NMB1048 hypothetical protein 1065918 1064452
NMB1049 transcriptional regulator, putative 1066174 1067085
NMB1050 transposase, IS30 family 1068512 1067550
NMB1051 ABC transporter, ATP-binding protein 1070544 1068637
NMB1052 dedA protein 1071207 1070566
NMB1053 class 5 outer membrane protein 1072189 1071374
NMB1054 IS1106 transposase, degenerate 1073920 1072988
NMB1055 serine hydroxymethyltransferase 1075474 1074227
NMB1056 hypothetical protein 1075753 1075544
NMB1057 gamma-glutamyltranspeptidase 1077776 1075959
NMB1058 conserved hypothetical protein FRAMESHIFT 1078161 1077902
NMB1059 conserved hypothetical protein 1078505 1078720
NMB1060 fructose-1,6-bisphosphatase 1079840 1078869
NMB1061 conserved hypothetical protein 1080931 1080089
NMB1062 conserved hypothetical protein 1081610 1081011
NMB1063 dihydroneopterin aldolase 1081666 1082019
NMB1064 conserved hypothetical protein 1082056 1082589
NMB1065 crcB protein 1083465 1083109
NMB1066 hypothetical protein 1084174 1083497
NMB1067 cell division protein FtsK 1084339 1087380
NMB1068 gamma-glutamyl phosphate reductase 1088870 1087611
NMB1069 glutamate 5-kinase 1089992 1088886
NMB1070 2-isopropylmalate synthase 1090477 1092027
NMB1071 conserved hypothetical protein 1092125 1092784
NMB1072 prolipoprotein diacylglycerol transferase 1093721 1092873
NMB1073 conserved hypothetical protein 1094922 1093795
NMB1074 acetylglutamate kinase 1095092 1095985
NMB1075 conserved hypothetical protein 1098302 1097637
NMB1076 DnaA-related protein 1098967 1098302
NMB1077 ABC transporter, ATP-binding protein, truncation 1099623 1099075
NMB1078 transcriptional regulator, UmuD/LexA family 1100312 1099875
NMB1079 hypothetical protein 1100580 1100425
NMB1080 ner protein FRAMESHIFT 1100802 1101061
NMB1081 bacteriophage transposase 1101126 1103108
NMB1082 hypothetical protein 1103120 1103317
NMB1083 bacteriophage DNA transposition protein B, putative 1103481
1104650
NMB1084 hypothetical protein 1104655 1105173
NMB1085 N-acetylmuramoyl-L-alanine amidase, putative 1105319 1105861
NMB1086 hypothetical protein 1106234 1106467
NMB1087 hypothetical protein 1106758 1107060
NMB1088 conserved hypothetical protein 1107278 1107111

Appendix B

-19-

NMB1089 hypothetical protein 1107506 1107841
NMB1090 hypothetical protein 1107856 1108119
NMB1091 hypothetical protein 1108119 1108313
NMB1092 hypothetical protein 1108319 1108822
NMB1093 hypothetical protein 1109412 1108825
NMB1094 hypothetical protein 1109497 1111044
NMB1095 conserved hypothetical protein 1111047 1112612
NMB1096 conserved hypothetical protein 1112602 1113894
NMB1097 cryptic Mu-phage G protein, putative 1114007 1114419
NMB1098 I protein, putative 1114653 1115711
NMB1099 transposase, IS30 family 1116767 1115805
NMB1100 hypothetical protein 1116795 1117274
NMB1101 conserved hypothetical protein 1117277 1117696
NMB1102 hypothetical protein 1117746 1118336
NMB1103 hypothetical protein 1118336 1118530
NMB1104 phage sheath protein 1118536 1119942
NMB1105 hypothetical protein 1120010 1120384
NMB1106 hypothetical protein 1120391 1120753
NMB1107 hypothetical protein 1121610 1121011
NMB1108 hypothetical protein 1121780 1123933
NMB1109 phage virion protein, putative 1123936 1125264
NMB1110 tail protein, 43 kDa 1125257 1126399
NMB1111 baseplate assembly protein V, putative 1126399 1127064
NMB1112 conserved hypothetical protein 1127168 1127512
NMB1113 conserved hypothetical protein FRAMESHIFT 1127529 1128580
NMB1114 conserved hypothetical protein 1128580 1129137
NMB1115 tail fibre protein, putative 1129151 1131121
NMB1116 hypothetical protein 1131560 1132084
NMB1117 hypothetical protein 1132350 1132204
NMB1118 conserved hypothetical protein 1132762 1132478
NMB1119 conserved hypothetical protein 1132842 1133444
NMB1120 hypothetical protein 1133426 1133719
NMB1121 conserved hypothetical protein 1133719 1133925
NMB1122 ABC transporter, ATP-binding protein FRAMESHIFT 1135181 1134041
NMB1198 conserved hypothetical protein 1199352 1198465
NMB1161 hypothetical protein 1167620 1167426
NMB1162 hypothetical protein 1168307 1167663
NMB1163 hypothetical protein 1168675 1168307
NMB1164 hypothetical protein 1169353 1168685
NMB1165 oxidoreductase, short chain dehydrogenase/reductase family 1170237
1169521
NMB1128 conserved hypothetical protein 1139597 1138287
NMB1167 hypothetical protein 1171869 1171666
NMB1168 phytoene synthase, putative 1172903 1172034
NMB1131 chaperone protein HscA 1142897 1141038
NMB1132 hypothetical protein 1143630 1142977
NMB1171 conserved hypothetical protein / ankyrin-related protein 1176464
1175706
NMB1172 ferredoxin, 2Fe-2S type 1176860 1176522
NMB1173 hypothetical protein 1177278 1177138
NMB1136 hypothetical protein 1146017 1145337
NMB1175 conserved hypothetical protein 1178247 1178053
NMB1176 conserved hypothetical protein 1178719 1178321
NMB1139 acetyl-CoA carboxylase, carboxyl transferase alpha subunit 1147851
1146895
NMB1140 mesJ protein FRAMESHIFT 1149229 1147948
NMB1179 RNA methyltransferase, TrmH family 1182124 1181516
NMB1180 hypothetical protein 1182411 1182178
NMB1181 hypothetical protein 1182945 1182583
NMB1182 hypothetical protein 1183262 1182960
NMB1145 UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-
diaminopimelate ligase 1152664 1151291
NMB1146 biotin synthetase 1153923 1152874
NMB1185 hypothetical protein 1186675 1186043

Appendix B

-20-

NMB1148 hypothetical protein 1154845 1154693
NMB1187 hypothetical protein 1187052 1186912
NMB1150 dihydroxy-acid dehydratase 1157144 1155288
NMB1189 sulfite reductase hemoprotein, beta-component 1191122 1189356
NMB1190 sulfite reductase (NADPH) flavoprotein, alpha component 1192963
1191152
NMB1153 sulfate adenylyltransferase, subunit 1 1162210 1160927, plasmid
protein [REDACTED]
NMB1192 sulfate adenylyltransferase, subunit 2 1195208 1194288
NMB1155 phosphoadenosine phosphosulfate reductase 1163950 1163213
NMB1194 siroheme synthase 1197448 1196000
NMB1195 hypothetical protein 1197732 1197577
NMB1158 nickel-dependent hydrogenase, b-type cytochrome subunit 1166365
1165712
NMB1197 conserved hypothetical protein 1199352 1198465
NMB1199 GTP-binding protein TypA 1201433 1199625
NMB1200 ribonuclease II family protein 1202272 1204644
NMB1201 IMP dehydrogenase 1206449 1204989
NMB1202 hypothetical protein 1207237 1206779
NMB1203 protein-PII uridylyltransferase 1209886 1207331
NMB1204 transcriptional regulator 1210255 1209938
NMB1205 hypothetical protein 1210426 1210283
NMB1206 bacterioferritin B 1211053 1210583
NMB1207 bacterioferritin A 1211545 1211084
NMB1208 hypothetical protein 1211610 1211810
NMB1209 hypothetical protein 1211900 1212100
NMB1210 toxin-activating protein, putative 1212121 1212585
NMB1211 hypothetical protein 1212984 1212745
NMB1212 hypothetical protein 1213319 1212984
NMB1213 hypothetical protein 1213678 1213319
NMB1214 hemagglutinin/hemolysin-related protein 1220496 1213678
NMB1215 hypothetical protein 1220814 1220659
NMB1216 lipoic acid synthetase 1221989 1221009
NMB1217 lipoate-protein ligase B 1222554 1221985
NMB1218 conserved hypothetical protein 1222882 1222610
NMB1219 transporter, putative 1223067 1224134
NMB1220 stomatin/Mec-2 family protein 1225281 1224337
NMB1221 hypothetical protein 1225703 1225299
NMB1222 uracil-DNA glycosylase 1225784 1226440
NMB1223 site-specific DNA methylase, degenerate 1226520 1229028
NMB1224 hypothetical protein 1229552 1229154
NMB1225 hypothetical protein 1230112 1229600
NMB1226 ABC transporter, ATP-binding protein 1232500 1230581
NMB1227 conserved hypothetical protein 1232972 1232580
NMB1228 homoserine dehydrogenase 1233145 1234449
NMB1229 hypothetical protein 1234445 1234876
NMB1230 DNA-binding protein HU-beta 1235207 1234941
NMB1231 ATP-dependent protease La 1237851 1235392
NMB1232 conserved hypothetical protein 1238285 1239202
NMB1233 exodeoxyribonuclease V, alpha subunit 1240978 1239236
NMB1234 ABC transporter, ATP-binding protein 1241741 1241049
NMB1235 conserved hypothetical protein 1242981 1241737
NMB1236 hypothetical protein 1243186 1243461
NMB1237 recombination protein RecR 1244140 1243523
NMB1238 peptidyl-prolyl cis-trans isomerase-related protein 1245742
1244207
NMB1239 conserved hypothetical protein 1246176 1245805
NMB1240 ABC transporter, ATP-binding protein 1246326 1247951
NMB1241 tRNA nucleotidyltransferase 1248026 1249276
NMB1242 hypothetical protein 1249502 1249807
NMB1243 Holliday junction DNA helicase RuvB 1249892 1250920
NMB1244 ribulose-phosphate 3-epimerase 1251674 1250949
NMB1245 hypothetical protein 1252367 1252035
NMB1246 conserved hypothetical protein 1253294 1252434

Appendix B

-21-

NMB1247 riboflavin synthase, alpha subunit 1254006 1253305
NMB1248 molybdopterin-guanine dinucleotide biosynthesis protein A
FRAMESHIFT 1254659 1254085
NMB1249 nitrate/nitrite sensory protein NarX, putative 1254901 1256670
NMB1250 transcriptional regulator, LuxR family 1256670 1257323
NMB1251 transposase, IS30 family 1258731 1257769
NMB1252 phosphoribosylformylglycinamide cyclo-ligase 1259914 1258883
NMB1253 hypothetical protein 1260672 1261346
NMB1254 GTP cyclohydrolase II 1261342 1261932
NMB1255 glycosyl transferase, degenerate 1262256 1263263
NMB1256 GTP cyclohydrolase II/3,4-dihydroxy-2-butanone-4-phosphate
synthase 1263728 1264816
NMB1257 site-specific DNA methylase, degenerate 1265357 1265130
NMB1258 conserved hypothetical protein 1267046 1265739
NMB1259 transposase, IS30 family 1267584 1268546
NMB1260 type III restriction-modification system EcoPI enzyme, subunit res
1271565 1268629
NMB1261 type III restriction-modification system EcoPI enzyme, subunit mod
POINT MUTATION FRAMESHIFT 1273661 1271581
NMB1262 peptidyl-prolyl cis-trans isomerase 1274334 1273780
NMB1263 CobW-related protein 1275316 1274402
NMB1264 conserved hypothetical protein 1275771 1275502
NMB1265 conserved hypothetical protein 1276061 1275771
NMB1266 zinc uptake regulation protein, putative 1276582 1276109
NMB1267 low molecular weight protein tyrosine-phosphatase 1277108 1276656
NMB1268 conserved hypothetical protein 1278348 1277236
NMB1269 hypothetical protein 1279559 1278465
NMB1270 conserved hypothetical protein 1281272 1279644
NMB1271 mercury transport periplasmic protein, putative 1281584 1281375
NMB1272 hypothetical protein 1281765 1281625
NMB1273 alginate O-acetylation protein AlgI, putative 1282215 1283648
NMB1274 hypothetical protein 1283662 1284642
NMB1275 hypothetical protein 1284642 1286083
NMB1276 long-chain-fatty-acid--CoA ligase 1286122 1287672
NMB1277 transporter, BCCT family 1289792 1287768
NMB1278 site-specific recombinase 1290081 1292084
NMB1279 membrane-bound lytic murein transglycosylase B, putative 1293319
1292213
NMB1280 very long chain acyl-CoA dehydrogenase-related protein 1294948
1293524
NMB1281 transcription-repair coupling factor 1295133 1299269
NMB1282 aspartate 1-decarboxylase 1299421 1299801
NMB1283 2-dehydro-3-deoxyphosphooctonate aldolase 1299826 1300665
NMB1284 hypothetical protein 1300683 1301120
NMB1285 enolase 1301171 1302454
NMB1286 conserved hypothetical protein 1302471 1302746
NMB1287 ferredoxin, putative 1303080 1302793
NMB1288 ribonucleoside-diphosphate reductase, beta subunit 1304479 1303328
NMB1289 type II restriction enzyme, putative 1305706 1304522
NMB1290 C-5 cytosine-specific DNA-methylase 1306712 1305702
NMB1291 ribonucleoside-diphosphate reductase, alpha subunit 1309049
1306773
NMB1292 hypothetical protein 1309394 1309209
NMB1293 hypothetical protein 1309563 1309886
NMB1294 1-acyl-sn-glycerol-3-phosphate acyltransferase 1310967 1310203
NMB1295 formamidopyrimidine-DNA glycosylase 1311882 1311058
NMB1296 hypothetical protein 1312599 1311937
NMB1297 membrane-bound lytic murein transglycosylase D 1312778 1314751
NMB1298 ribosomal small subunit pseudouridine synthase A 1314822 1315511
NMB1299 sodium- and chloride-dependent transporter, degenerate 1316091
1317454
NMB1300 cytidylate kinase 1317701 1318354
NMB1301 30S ribosomal protein S1 1318513 1320195
NMB1302 integration host factor, beta subunit 1320209 1320520

Appendix B

-22-

NMB1303 transcriptional regulator, MerR family 1321281 1320877
NMB1304 alcohol dehydrogenase, class III 1321402 1322535
NMB1305 esterase, putative 1322547 1323371
NMB1306 conserved hypothetical protein 1323765 1324913
NMB1307 nucleoside diphosphate kinase 1324975 1325397
NMB1308 conserved hypothetical protein 1325543 1326634
NMB1309 fimbrial biogenesis and twitching motility protein, putative, 1326640 1327398
NMB1310 gcpE protein 1327417 1328679
NMB1311 hypothetical protein 1328970 1328737
NMB1312 ATP-dependent Clp protease, proteolytic subunit 1329655 1329128
NMB1313 trigger factor 1331148 1329838
NMB1314 cell division protein FtsK 1333791 1331356
NMB1315 uracil permease 1334014 1335222
NMB1316 hypothetical protein 1335289 1335726
NMB1317 hypothetical protein 1335865 1336266
NMB1318 CDP-diacylglycerol--serine O-phosphatidyltransferase 1336343 1337086
NMB1319 conserved hypothetical protein 1337090 1337860
NMB1320 50S ribosomal protein L9 1338540 1338091
NMB1321 30S ribosomal protein S18 1338787 1338560
NMB1322 primosomal replication protein n, putative 1339096 1338797
NMB1323 30S ribosomal protein S6 1339465 1339100
NMB1324 thioredoxin reductase 1340571 1339624
NMB1325 cation transport ATPase, E1-E2 family 1340710 1342869
NMB1326 excinuclease ABC, subunit C 1342969 1344819
NMB1327 conserved hypothetical protein 1345045 1346445
NMB1328 conserved hypothetical protein 1346570 1347283
NMB1329 hypothetical protein 1347649 1347840
NMB1330 hypothetical protein 1348276 1347917
NMB1331 excinuclease ABC, subunit B 1350416 1348392
NMB1332 carboxy-terminal peptidase 1352229 1350748
NMB1333 conserved hypothetical protein 1354146 1352359
NMB1334 hypothetical protein 1354238 1354471
NMB1335 creA protein 1354474 1355031
NMB1336 conserved hypothetical protein 1355036 1355581
NMB1337 conserved hypothetical protein 1355577 1356029
NMB1338 isomerase, putative 1356698 1356045
NMB1339 prolyl-tRNA synthetase 1358473 1356764
NMB1340 hypothetical protein 1358924 1359151
NMB1341 pyruvate dehydrogenase, E1 component 1359167 1361827
NMB1342 pyruvate dehydrogenase, E2 component, dihydrolipoamide acetyltransferase FRAMESHIFT 1361979 1363583
NMB1343 hypothetical protein 1363680 1364114
NMB1344 pyruvate dehydrogenase, E3 component, lipoamide dehydrogenase 1364135 1365916
NMB1345 hypothetical protein 1367830 1366283
NMB1346 TonB-dependent receptor, putative FRAMESHIFT 1369731 1367957
NMB1347 extragenic suppressor protein SuhB 1370786 1370004
NMB1348 RNA methylase, putative 1371030 1371842
NMB1349 hypothetical protein 1371906 1372760
NMB1350 hypothetical protein 1372967 1373305
NMB1351 fmu and fmv protein, putative 1373656 1374909
NMB1352 hypothetical protein 1375272 1375703
NMB1353 aldehyde dehydrogenase family protein 1377097 1375757
NMB1354 conserved hypothetical protein 1377755 1377105
NMB1355 glutamyl-tRNA (Gln) amidotransferase subunit C, putative 1377906 1378193
NMB1356 Glu-tRNA(Gln) amidotransferase, subunit A 1378259 1379701
NMB1357 conserved hypothetical protein 1379701 1380630
NMB1358 Glu-tRNA(Gln) amidotransferase, subunit B 1380676 1382103
NMB1359 CDP-6-deoxy-delta-3,4-glucose reductase, putative 1382318 1383325
NMB1360 pyridoxamine 5-phosphate oxidase 1384090 1383461

Appendix B

-23-

NMB1361 conserved hypothetical protein 1384312 1385361
NMB1362 oxalate/formate antiporter, putative 1386974 1385436
NMB1363 exodeoxyribonuclease, large subunit 1388622 1387270
NMB1364 NH(3)-dependent NAD⁺ synthetase NadE, putative 1388819 1389637
NMB1365 conserved hypothetical protein 1390183 1389713
NMB1366 thioredoxin 1390481 1390810
NMB1367 conserved hypothetical protein 1391930 1390869
NMB1368 ATP-dependent RNA helicase, putative 1392141 1393526
NMB1369 hypothetical protein 1394572 1394021
NMB1370 hypothetical protein 1395217 1394860
NMB1371 acetylornithine aminotransferase 1395561 1396754
NMB1372 ATP-dependent Clp protease, ATP-binding subunit ClpX 1398104
1396863
NMB1373 ribosome-binding factor A 1398295 1398663
NMB1374 tRNA pseudouridine synthase B 1398699 1399619
NMB1375 modification methylase, putative FRAMESHIFT 1399839 1401945
NMB1376 conserved hypothetical protein POINT MUTATION 1401938 1404712
NMB1377 L-lactate dehydrogenase 1406036 1404867
NMB1378 conserved hypothetical protein 1406327 1406770
NMB1379 nifS protein 1406802 1408013
NMB1380 nifU protein 1408280 1408663
NMB1381 HesB/YadR/YfhF family protein 1408693 1409070
NMB1382 conserved hypothetical protein 1409254 1409036
NMB1383 chaperone protein HscB 1409336 1409833
NMB1384 DNA gyrase subunit A 1409934 1412681
NMB1385 IS1016 family transposase, degenerate 1412841 1413241
NMB1386 transposase, putative FRAMESHIFT 1413303 1413955
NMB1387 hypothetical protein 1414840 1414292
NMB1388 glucose-6-phosphate isomerase 1416500 1414857
NMB1389 RpiR/YebK/YfhH family protein 1417469 1416624
NMB1390 glucokinase 1418505 1417522
NMB1391 oxidoreductase, Sol/DevB family 1419181 1418489
NMB1392 glucose-6-phosphate 1-dehydrogenase 1420906 1419464
NMB1393 phosphogluconate dehydratase 1421474 1423306
NMB1394 4-hydroxy-2-oxoglutarate aldolase/2-deydro-3-deoxyphosphogluconate
aldolase 1423490 1424125
NMB1395 alcohol dehydrogenase, zinc-containing 1425427 1424390
NMB1396 A/G-specific adenine glycosylase 1425581 1426627
NMB1397 hypothetical protein 1426793 1426972
NMB1398 Cu-Zn-superoxide dismutase 1427047 1427604
NMB1399 IS1106 transposase 1429146 1428175
NMB1400 ABC transporter family protein 1431631 1429406
NMB1401 IS1016C2 transposase 1432983 1432447
NMB1402 hypothetical protein 1433320 1433751
NMB1403 FrpA/C-related protein 1433795 1433983
NMB1404 hypothetical protein 1434021 1434746
NMB1405 FrpA/C-related protein 1434763 1435962
NMB1406 hypothetical protein 1436396 1436755
NMB1407 FrpA-related protein, degenerate 1436755 1437881
NMB1408 hypothetical protein 1437960 1438451
NMB1409 FrpA/C-related protein 1438582 1439007
NMB1410 hypothetical protein 1439247 1439783
NMB1411 IS1016C2 transposase 1440610 1439960
NMB1412 FrpC operon protein 1441216 1442022
NMB1413 IS1016 family transposase, putative FRAMESHIFT 1442715 1442132
NMB1414 FrpC operon protein 1442798 1443568
NMB1415 iron-regulated protein FrpC 1443588 1449074
NMB1416 aminopeptidase N 1452022 1449422
NMB1417 conserved hypothetical protein 1452947 1452156
NMB1418 HtrB/MsbB family protein 1454563 1453697
NMB1419 crossover junction endodeoxyribonuclease RuvC 1455150 1454617
NMB1420 factor-for-inversion stimulation protein Fis, putative 1455392
1455156
NMB1421 nifR3 protein 1456432 1455425

Appendix B

-24-

NMB1422 ATP-dependent RNA helicase, putative 1456798 1458168
NMB1423 conserved hypothetical protein 1458746 1459870
NMB1424 hypothetical protein 1459903 1460928
NMB1425 lysyl-tRNA synthetase, heat inducible 1462560 1461052
NMB1426 hypothetical protein 1463968 1462718
NMB1427 hypothetical protein 1464208 1464032
NMB1428 aminopeptidase, putative 1464426 1466219
NMB1429 outer membrane protein PorA 1468209 1467034
NMB1430 transcription elongation factor GreA 1470964 1470491
NMB1431 hypothetical protein 1471298 1471050
NMB1432 3-phosphoshikimate 1-carboxyvinyltransferase 1471360 1472658
NMB1433 conserved hypothetical protein FRAMESHIFT 1473237 1472707
NMB1434 cardiolipin synthetase family protein 1474971 1473448
NMB1435 drug resistance translocase family protein 1476489 1475086
NMB1436 conserved hypothetical protein 1476774 1477550
NMB1437 conserved hypothetical protein 1477550 1478248
NMB1438 conserved hypothetical protein 1478248 1479699
NMB1439 phosphoribosylaminoimidazole carboxylase, catalytic subunit
1480370 1479888
NMB1440 hypothetical protein 1481131 1480421
NMB1441 O-methyltransferase, putative 1481799 1481134
NMB1442 mismatch repair protein MutL 1482139 1484112
NMB1443 DNA polymerase III, subunits gamma and tau 1484210 1486321
NMB1444 conserved hypothetical protein 1486404 1486736
NMB1445 recA protein 1489556 1488513
NMB1446 3-dehydroquinate dehydratase 1489810 1490571
NMB1447 ATP-dependent DNA helicase Rep 1490594 1492606
NMB1448 DNA-damage-inducible protein P 1493734 1492781
NMB1449 TonB-dependent receptor POINT MUTATION 1496967 1493881
NMB1450 ferredoxin--NADP reductase 1497241 1498017
NMB1451 DNA polymerase III, epsilon subunit 1499643 1498234
NMB1452 conserved hypothetical protein 1500459 1501595
NMB1453 hypothetical protein 1502335 1501847
NMB1454 ferredoxin, 4Fe-4S bacterial type 1503891 1502398
NMB1455 hypothetical protein 1504075 1503959
NMB1456 hypothetical protein 1504347 1504153
NMB1457 transketolase 1504419 1506395
NMB1458 fumarate hydratase, class II 1506547 1507932
NMB1459 conserved hypothetical protein 1508923 1508003
NMB1460 single-strand binding protein 1509972 1509451
NMB1461 drug resistance translocase family protein 1511361 1509979
NMB1462 transglycosylase, putative 1512092 1511472
NMB1463 IS1106 transposase, degenerate 1512998 1512596
NMB1464 conserved hypothetical protein 1513541 1513053
NMB1465 opacity protein FRAMESHIFT 1515309 1514483
NMB1466 conserved hypothetical protein 1515639 1516367
NMB1467 exopolyphosphatase 1516487 1517992
NMB1468 hypothetical protein 1518527 1518207
NMB1469 hypothetical protein 1518607 1518527
NMB1470 hypothetical protein 1519392 1518850
NMB1471 tryptophanyl-tRNA synthetase 1520471 1519464
NMB1472 clpB protein 1520732 1523308
NMB1473 aminotransferase, class I 1524612 1523401
NMB1474 4-oxalocrotonate tautomerase, putative 1524910 1524704
NMB1475 conserved hypothetical protein 1525255 1526058
NMB1476 glutamate dehydrogenase, NAD-specific 1527384 1526122
NMB1477 hypothetical protein 1527562 1527396
NMB1478 phosphoglycolate phosphatase FRAMESHIFT 1527786 1528489
NMB1479 regulatory protein RecX 1528560 1529018
NMB1480 hypothetical protein 1529095 1529253
NMB1481 hypothetical protein 1529262 1529393
NMB1482 acyl CoA thioester hydrolase family protein 1529409 1529888
NMB1483 lipoprotein NlpD, putative 1531499 1530255
NMB1484 stationary-phase survival protein SurE 1532501 1531758

Appendix B

-25-

NMB1485 conserved hypothetical protein 1534074 1532521
NMB1486 hypothetical protein 1534263 1534126
NMB1487 fimbrial assembly protein 1535230 1534445
NMB1488 succinate-semialdehyde dehydrogenase (NADP+) 1536772 1535342
NMB1489 hypothetical protein 1537259 1537750
NMB1490 hypothetical protein 1538345 1537917
NMB1491 hypothetical protein 1538785 1538699
NMB1492 hypothetical protein 1538860 1538795
NMB1493 carbon starvation protein A 1538892 1540970
NMB1494 conserved hypothetical protein 1540963 1541154
NMB1495 hypothetical protein 1541371 1541562
NMB1496 conserved hypothetical protein 1541673 1542230
NMB1497 TonB-dependent receptor 1543234 1545996
NMB1498 aspartokinase, alpha and beta subunits 1549220 1548006
NMB1499 ribonuclease PH 1550148 1549423
NMB1500 conserved hypothetical protein 1550694 1550233
NMB1501 HesA/MoeB/ThiF family protein 1550911 1551684
NMB1502 hypothetical protein 1551825 1552349
NMB1503 hypothetical protein 1552608 1552814
NMB1504 conserved hypothetical protein 1552706 1553557
NMB1505 nicotinate phosphoribosyltransferase 1553601 1554806
NMB1506 arginyl-tRNA synthetase 1554901 1556616
NMB1507 hypothetical protein 1556714 1557070
NMB1508 hypothetical protein 1557130 1558584
NMB1509 amino acid ABC transporter, permease protein 1560344 1559601
NMB1510 thermonuclease family protein 1561224 1560526
NMB1511 ribose 5-phosphate isomerase A 1561934 1561266
NMB1512 YgbB/YacN family protein 1562493 1562014
NMB1513 conserved hypothetical protein 1563214 1562528
NMB1514 DNA polymerase III, epsilon subunit 1563945 1563214
NMB1515 transporter, putative 1565411 1564104
NMB1516 fixS protein 1565589 1565404
NMB1517 hypothetical protein 1565885 1565589
NMB1518 acetate kinase 1566236 1567429
NMB1519 thiol:disulfide interchange protein DsbD 1569752 1567950
NMB1520 hypothetical protein 1570337 1569819
NMB1521 phytoene synthase-related protein 1571249 1570425
NMB1522 FKBP-type peptidyl-prolyl cis-trans isomerase SlyD 1571803 1571324
NMB1523 hypothetical protein 1572276 1572569
NMB1524 oxidoreductase, putative 1572682 1574046
NMB1525 VirG-related protein FRAMESHIFT 1576262 1574233
NMB1526 small major protein B 1577081 1576638
NMB1527 ADP-heptose--LPS heptosyltransferase II 1578146 1577139
NMB1528 methylated-DNA--protein-cysteine methyltransferase, putative
1579353 1578547
NMB1529 conserved hypothetical protein FRAMESHIFT 1579597 1580409
NMB1530 succinyl-diaminopimelate desuccinylase 1582228 1581086
NMB1531 conserved hypothetical protein 1582961 1582344
NMB1532 conserved hypothetical protein 1583504 1582998
NMB1533 H.8 outer membrane protein 1584150 1583602
NMB1534 hypothetical protein 1584287 1584150
NMB1535 hypothetical protein 1584404 1584874
NMB1536 preprotein translocase SecA subunit 1584984 1587731
NMB1537 DNA primase 1587879 1589648
NMB1538 RNA polymerase sigma factor RpoD 1589838 1591763
NMB1539 IS1106 transposase 1591913 1592917
NMB1540 lactoferrin-binding protein A 1597271 1594443
NMB1541 lactoferrin-binding protein B 1599481 1597271
NMB1542 hypothetical protein 1600504 1600722
NMB1543 conserved hypothetical protein 1600871 1602082
NMB1544 hypothetical protein 1602097 1602405
NMB1545 hypothetical protein 1602412 1602609
NMB1546 hypothetical protein 1602795 1603076
NMB1547 hypothetical protein 1603107 1603406

Appendix B

-26-

NMB1548 tspB protein, putative 1603741 1605384
NMB1549 hypothetical protein 1606176 1606325
NMB1550 conserved hypothetical protein 1606332 1606613
NMB1551 conserved hypothetical protein 1606617 1607717
NMB1552 pilin gene inverting protein PivNM-1A 1608019 1608972
NMB1553 transposase, truncation 1612022 1611708
NMB1554 CTP synthase 1613884 1612253
NMB1555 long-chain-fatty-acid--CoA ligase 1615666 1613999
NMB1556 tRNA (5-methylaminomethyl-2-thiouridylate) -methyltransferase
1616840 1615740
NMB1557 conserved hypothetical protein 1617439 1616969
NMB1558 diacylglycerol kinase 1618115 1617735
NMB1559 glutathione synthetase 1619386 1618430
NMB1560 glutaminyl-tRNA synthetase 1621164 1619479
NMB1561 transcriptional regulator, DeoR family 1622049 1621279
NMB1562 conserved hypothetical protein 1622994 1622095
NMB1563 transcriptional regulator, GntR family 1623859 1623146
NMB1564 conserved hypothetical protein 1624850 1624431
NMB1565 hypothetical protein 1625639 1624971
NMB1566 phosphoribosylglycinamide formyltransferase 1626281 1625658
NMB1567 macrophage infectivity potentiator 1627206 1626391
NMB1568 DNA polymerase holoenzyme chi subunit, putative 1627905 1627468
NMB1569 aminopeptidase A/I, FRAMESHIFT 1629499 1627971
NMB1570 conserved hypothetical protein 1629544 1630656
NMB1571 conserved hypothetical protein 1630656 1631723
NMB1572 aconitate hydratase 2 1631936 1634518
NMB1573 ornithine carbamoyltransferase, catabolic 1634663 1635655
NMB1574 ketol-acid reductoisomerase 1636895 1635885
NMB1575 conserved hypothetical protein 1637268 1636978
NMB1576 acetolactate synthase III, small subunit 1637826 1637338
NMB1577 acetolactate synthase III, large subunit 1639564 1637840
NMB1578 conserved hypothetical protein 1640685 1641335
NMB1579 ATP phosphoribosyltransferase 1641417 1642067
NMB1580 hypothetical protein 1642174 1643070
NMB1581 histidinol dehydrogenase 1643070 1644356
NMB1582 histidinol-phosphate aminotransferase 1644405 1645499
NMB1583 imidazoleglycerol-phosphate dehydratase 1645499 1646413
NMB1584 3-hydroxyacid dehydrogenase 1646511 1647377
NMB1585 transcriptional regulator, MarR family 1647658 1648086
NMB1586 hypothetical protein 1648100 1648963
NMB1587 protease, putative 1650120 1649020
NMB1588 CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase
1651479 1650919
NMB1589 hypothetical protein 1652036 1651797
NMB1590 conserved hypothetical protein 1652675 1652343
NMB1591 transcriptional regulator MtrA 1652804 1653706
NMB1592 hypothetical protein 1653729 1654313
NMB1593 conserved hypothetical protein 1654445 1655305
NMB1594 spermidine/putrescine ABC transporter, periplasmic
spermidine/putrescine-binding protein 1656479 1655352
NMB1595 alanyl-tRNA synthetase 1656684 1659305
NMB1596 hypothetical protein 1659348 1659551
NMB1597 hypothetical protein 1659569 1659997
NMB1598 hypothetical protein 1660094 1660282
NMB1599 hypothetical protein 1660300 1660584
NMB1600 hypothetical protein 1660624 1660878
NMB1601 IS1106 transposase 1661075 1662079
NMB1602 transposase, putative 1663112 1661997
NMB1603 tellurite resistance protein, putative 1663289 1664230
NMB1604 phosphoglycerate mutase 1664989 1664309
NMB1605 topoisomerase IV subunit A 1665137 1667437
NMB1606 sensor histidine kinase 1667460 1669033
NMB1607 sigma-54 dependent response regulator 1669029 1669493
NMB1608 conserved hypothetical protein 1669600 1670349

Appendix B

-27-

NMB1609 trans-sulfuration enzyme family protein 1672860 1671694
NMB1610 hypothetical protein 1673766 1673008
NMB1611 hypothetical protein 1673866 1674114
NMB1612 amino acid ABC transporter, periplasmic amino acid-binding protein
1674169 1674972
NMB1613 fumarate hydratase, class I 1675282 1676802
NMB1614 Trk system potassium uptake protein TrkA 1676903 1678312
NMB1615 hypothetical protein 1678758 1679018
NMB1616 phosphomethylpyrimidine kinase 1679755 1680558
NMB1617 tellurite resistance protein, putative 1681480 1680614
NMB1618 ribonuclease HI 1681594 1682028
NMB1619 conserved hypothetical protein 1682889 1683290
NMB1620 conserved hypothetical protein 1683333 1684514
NMB1621 glutathione peroxidase 1685113 1684583
NMB1622 nitric oxide reductase 1687547 1685295
NMB1623 major anaerobically induced outer membrane protein 1687918 1689087
NMB1624 conserved hypothetical protein 1689215 1689967
NMB1625 pilin gene inverting protein PivNM-1B 1691651 1690698
NMB1626 conserved hypothetical protein 1693053 1691953
NMB1627 conserved hypothetical protein 1693338 1693057
NMB1628 tspB protein, putative 1695347 1693797
NMB1629 Hypothetical protein 1695690 1695328
NMB1630 hypothetical protein 1696057 1695758
NMB1631 hypothetical protein 1696449 1696088
NMB1632 hypothetical protein 1696752 1696555
NMB1633 hypothetical protein 1697067 1696759
NMB1634 conserved hypothetical protein 1698296 1697091
NMB1635 hypothetical protein 1698662 1698444
NMB1636 opacity protein FRAMESHIFT 1700231 1701047
NMB1637 conserved hypothetical protein 1701808 1701254
NMB1638 YhbX/YhjW/YijP/YjdB family protein 1703518 1701887
NMB1639 hypothetical protein 1703921 1703595
NMB1640 phosphoserine aminotransferase 1705027 1703924
NMB1641 conserved hypothetical protein 1705374 1705820
NMB1642 N utilization substance protein A 1705851 1707350
NMB1643 translation initiation factor IF-2 1707365 1710250
NMB1644 hypothetical protein 1711755 1710418
NMB1645 hypothetical protein 1713169 1711832
NMB1646 hemolysin, putative 1713312 1713935
NMB1647 amino acid symporter, putative 1715420 1714005
NMB1648 conserved hypothetical protein 1715747 1716472
NMB1649 disulfide bond formation protein B 1717022 1716537
NMB1650 leucine-responsive regulatory protein 1718177 1717716
NMB1651 alanine racemase 1718502 1719557
NMB1652 conserved hypothetical protein 1720979 1719627
NMB1653 conserved hypothetical protein 1721266 1720997
NMB1654 conserved hypothetical protein 1722129 1721395
NMB1655 adenine specific methylase, putative 1723321 1722413
NMB1656 hypothetical protein 1723454 1724044
NMB1657 comE operon protein 1-related protein 1725327 1724713
NMB1658 DNA/pantothenate metabolism flavoprotein 1731065 1732246
NMB1659 guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase 1734472
1732319
NMB1660 DNA-directed RNA polymerase, omega subunit 1734770 1734567
NMB1661 guanylate kinase 1735446 1734832
NMB1662 adenine phosphoribosyltransferase 1735607 1736170
NMB1663 conserved hypothetical protein 1737007 1736222
NMB1664 protease, putative 1737332 1738684
NMB1665 conserved hypothetical protein 1739253 1738870
NMB1666 hypothetical protein 1739498 1739253
NMB1667 hypothetical protein 1740061 1739858
NMB1668 hemoglobin receptor 1742596 1740224
NMB1669 iron-starvation protein PigA 1743420 1742794
NMB1670 PqiA family protein 1743706 1745214

Appendix B

-28-

NMB1671 pqiB protein 1745210 1746868
NMB1672 conserved hypothetical protein 1746871 1747386
NMB1673 DNA-3-methyladenine glycosylase I, putative 1747393 1747941
NMB1674 GDSL lipase family protein 1747934 1748572
NMB1675 hypothetical protein 1748797 1749102
NMB1676 glycine dehydrogenase (decarboxylating) 1749136 1751984
NMB1677 cytochrome c5 1753288 1752452
NMB1678 aromatic-amino-acid aminotransferase 1754906 1753716
NMB1679 tRNA (uracil-5-)-methyltransferase 1756015 1754930
NMB1680 chorismate synthase 1756162 1757259
NMB1681 hypothetical protein 1757354 1757776
NMB1682 topoisomerase IV subunit B 1759838 1757856
NMB1683 MutT/nudix family protein 1760429 1759908
NMB1684 seryl-tRNA synthetase 1760595 1761887
NMB1685 D-lactate dehydrogenase 1762966 1761971
NMB1686 peptide chain release factor 1 1764167 1763094
NMB1687 conserved hypothetical protein 1765042 1764275
NMB1688 L-asparaginase I 1766051 1765053
NMB1689 dedA protein, putative 1767007 1766327
NMB1690 phosphoglucomutase/phosphomannomutase family protein 1768532
1767201
NMB1691 dihydropteroate synthase 1769519 1768665
NMB1692 chorismate mutase-related protein 1770552 1769662
NMB1693 hypothetical protein 1770643 1772754
NMB1694 conserved hypothetical protein 1774305 1772824
NMB1695 hypothetical protein 1774424 1775401
NMB1696 acyl carrier protein 1775800 1775558
NMB1697 acyl carrier protein, putative 1776072 1775815
NMB1698 acyltransferase, putative 1776827 1776072
NMB1699 hypothetical protein 1777185 1776823
NMB1700 hypothetical protein 1777345 1777707
NMB1701 hypothetical protein 1777763 1778260
NMB1702 3-oxoacyl-(acyl-carrier-protein) reductase 1778291 1779016
NMB1703 3-oxoacyl-(acyl-carrier-protein) synthase II 1779013 1780260
NMB1704 beta-1,4-glucosyltransferase 1780467 1781222
NMB1705 alpha-1,2-N-acetylglucosamine transferase 1781226 1782287
NMB1706 hypothetical protein 1782329 1782496
NMB1707 sodium- and chloride-dependent transporter 1782677 1784011
NMB1708 NosX-related protein 1784846 1784189
NMB1709 thymidylate synthase 1785648 1784857
NMB1710 glutamate dehydrogenase, NADP-specific 1786032 1787363
NMB1711 transcriptional regulator, GntR family 1788280 1787504
NMB1712 L-lactate permease-related protein 1788711 1789007
NMB1713 transposase, IS30 family 1790361 1789399
NMB1714 multidrug efflux pump channel protein 1791874 1790474
NMB1715 multiple transferable resistance system protein MtrD 1795132
1791932
NMB1716 membrane fusion protein 1796382 1795147
NMB1717 transcriptional regulator MtrR 1796785 1797414
NMB1718 hypothetical protein 1797953 1797699
NMB1719 efflux pump component MtrF 1798240 1799805
NMB1720 exodeoxyribonuclease V 125 kD polypeptide 1803085 1799879
NMB1721 conserved hypothetical protein 1804596 1803190
NMB1722 cytochrome C555 FRAMESHIFT 1804923 1804801
NMB1723 cytochrome c oxidase, subunit III 1806129 1805035
NMB1724 cytochrome c oxidase, subunit II 1806939 1806331
NMB1725 cytochrome c oxidase, subunit I 1808411 1806969
NMB1726 conserved hypothetical protein 1808726 1810471
NMB1727 conserved hypothetical protein 1810539 1810964
NMB1728 biopolymer transport protein ExbD 1812088 1811657
NMB1729 biopolymer transport protein ExbB 1812753 1812094
NMB1730 TonB protein 1813661 1812822
NMB1731 conserved hypothetical protein 1813916 1814551
NMB1732 transporter, putative 1815806 1815009

Appendix B

-29-

NMB1733 hypothetical protein 1816445 1815945
NMB1734 glutaredoxin 1817423 1816785
NMB1735 GTP pyrophosphokinase 1817566 1819776
NMB1736 transposase, putative FRAMESHIFT 1820048 1820856
NMB1737 secretion protein, putative 1822426 1821026
NMB1738 secretion protein, putative 1823922 1822498
NMB1739 hypothetical protein 1824158 1824508
NMB1740 hypothetical protein 1824635 1825042
NMB1741 conserved hypothetical protein FRAMESHIFT 1825116 1826455
NMB1742 hypothetical protein 1826503 1826790
NMB1743 hypothetical protein 1826798 1826992
NMB1744 hypothetical protein 1827003 1827284
NMB1745 hypothetical protein 1827294 1827569
NMB1746 hypothetical protein 1827700 1827987
NMB1747 tspB protein, putative 1828031 1829533
NMB1748 conserved hypothetical protein 1829537 1829824
NMB1749 conserved hypothetical protein 1829837 1830919
NMB1750 pilin gene inverting protein PivNM-2 1831548 1832495
NMB1751 transposase, degenerate 1833264 1832887
NMB1752 conserved hypothetical protein FRAMESHIFT 1833772 1833299
NMB1753 VapD-related protein 1834647 1835081
NMB1754 cryptic plasmid protein A-related protein 1835182 1835084
NMB1755 hypothetical protein 1835328 1835669
NMB1756 hypothetical protein 1835980 1836171
NMB1757 hypothetical protein 1836529 1836756
NMB1758 hypothetical protein 1837008 1837217
NMB1759 conserved hypothetical protein 1837403 1838764
NMB1760 conserved hypothetical protein 1839128 1839631
NMB1761 conserved hypothetical protein 1839797 1841047
NMB1762 hemolysin activation protein HecB, putative 1843162 1841378
NMB1763 toxin-activating protein, putative 1843675 1843220
NMB1764 hypothetical protein 1844155 1843844
NMB1765 hypothetical protein 1844466 1844170
NMB1766 hypothetical protein 1845460 1844450
NMB1767 hypothetical protein 1845945 1845532
NMB1768 hemagglutinin/hemolysin-related protein 1853493 1845952
NMB1769 IS1016 family transposase, putative truncation 1853631 1853822
NMB1770 transposase, IS30 family 1854072 1855034
NMB1771 hypothetical protein 1855539 1855108
NMB1772 hypothetical protein 1857374 1855539
NMB1773 hypothetical protein 1857783 1857412
NMB1774 hypothetical protein 1858438 1858064
NMB1775 hypothetical protein 1860252 1858450
NMB1776 hypothetical protein 1860353 1860252
NMB1777 hypothetical protein 1861364 1861122
NMB1778 hypothetical protein 1861489 1861388
NMB1779 hemagglutinin/hemolysin-related protein 1867499 1861515
NMB1780 hemolysin activation protein HecB, putative 1869350 1867611
NMB1781 hypothetical protein 1869919 1869752
NMB1782 hypothetical protein 1870236 1869937
NMB1783 secretion protein, putative FRAMESHIFT 1871826 1870605
NMB1784 hypothetical protein 1872240 1871890
NMB1785 hypothetical protein 1872472 1872236
NMB1786 hypothetical protein 1873623 1872472
NMB1787 N-acetyl-gamma-glutamyl-phosphate reductase 1874156 1875196
NMB1788 ATP-dependent DNA helicase RecG 1878304 1876265
NMB1789 protein-export protein SecB 1878833 1878393
NMB1790 glutaredoxin 3 1879111 1878857
NMB1791 cytoplasmic axial filament protein FRAMESHIFT 1879236 1880813
NMB1792 sensor histidine kinase 1881795 1880854
NMB1793 response regulator, putative FRAMESHIFT 1882272 1881854
NMB1794 citrate transporter 1883808 1882498
NMB1795 hypothetical protein 1884071 1883916
NMB1796 conserved hypothetical protein 1884950 1884381

Appendix B

-30-

NMB1797 penicillin-binding protein 3 1885109 1886515
NMB1798 IS1016 family transposase, putative FRAMESHIFT 1887236 1886597
NMB1799 S-adenosylmethionine synthetase 1888654 1887488
NMB1800 hypothetical protein 1888703 1888903
NMB1801 HtrB/MsbB family protein 1889000 1889893
NMB1802 O-sialoglycoprotein endopeptidase 1891004 1889943
NMB1803 cytochrome c-type biogenesis protein, putative 1892308 1891124
NMB1804 cytochrome c-type biogenesis protein, putative 1894316 1892304
NMB1805 cytochrome c4 1895153 1894533
NMB1806 conserved hypothetical protein 1895353 1895985
NMB1807 penicillin-binding protein 1 1898505 1896112
NMB1808 pilM protein 1898657 1899769
NMB1809 pilN protein FRAMESHIFT 1899775 1900371
NMB1810 pilO protein 1900375 1901019
NMB1811 pilP protein 1901040 1901582
NMB1812 pilQ protein FRAMESHIFT 1901604 1903908
NMB1813 shikimate kinase 1904813 1905322
NMB1814 3-dehydroquinase synthase 1905405 1906481
NMB1815 conserved hypothetical protein 1907451 1908290
NMB1816 conserved hypothetical protein 1908323 1908784
NMB1817 riboflavin-specific deaminase 1908819 1909925
NMB1818 lipopolysaccharide biosynthesis protein, putative 1910123 1911541
NMB1819 hypothetical protein 1911541 1911693
NMB1820 pilin glycosylation protein PglB 1911712 1912950
NMB1821 pilin glycosylation protein PglC 1913086 1914258
NMB1822 pilin glycosylation protein PglD 1914309 1916216
NMB1823 valine--pyruvate aminotransferase 1916275 1917564
NMB1824 conserved hypothetical protein 1918455 1917622
NMB1825 hypothetical protein 1919103 1918903
NMB1826 conserved hypothetical protein 1919452 1919084
NMB1827 DNA polymerase III, alpha subunit 1919852 1923283
NMB1828 conserved hypothetical protein 1924652 1923723
NMB1829 TonB-dependent receptor 1926848 1924725
NMB1830 phosphoglycolate phosphatase, putative 1926996 1927652
NMB1831 lytB protein 1928711 1927746
NMB1832 lipoprotein signal peptidase 1929267 1928743
NMB1833 isoleucyl-tRNA synthetase 1933332 1930546
NMB1834 riboflavin kinase/FMN adenylyltransferase 1934394 1933477
NMB1835 tyrosyl-tRNA synthetase 1936217 1934925
NMB1836 lipopolysaccharide biosynthesis protein WbpC, putative 1938151
1936283
NMB1837 hypothetical protein 1938466 1938215
NMB1838 GTP-binding protein, putative 1939615 1938527
NMB1839 formate--tetrahydrofolate ligase 1941406 1939733
NMB1840 conserved hypothetical protein 1941581 1942009
NMB1841 mannose-1-phosphate guanylyltransferase-related protein 1942741
1942049
NMB1842 4-hydroxyphenylacetate 3-hydroxylase, small subunit, putative
1943257 1942760
NMB1843 transcriptional regulator, MarR family 1943812 1943375
NMB1844 hypothetical protein 1943938 1943819
NMB1845 thioredoxin 1944662 1944156
NMB1846 Mrp/NBP35 family protein 1945032 1946108
NMB1847 pilC1 protein FRAMESHIFT 1947287 1950374
NMB1848 hypothetical protein 1952279 1951938
NMB1849 carbamoyl-phosphate synthase, small subunit 1952589 1953719
NMB1850 hypothetical protein 1954091 1954363
NMB1851 hypothetical protein 1954440 1954697
NMB1852 conserved hypothetical protein 1954697 1955083
NMB1853 hypothetical protein 1955422 1955691
NMB1854 hypothetical protein 1955768 1956406
NMB1855 carbamoyl-phosphate synthase, large subunit 1956438 1959650
NMB1856 transcriptional regulator, LysR family 1960777 1959881
NMB1857 modulator of drug activity B 1961016 1961591

Appendix B

-31-

NMB1858 hypothetical protein 1961977 1961594
NMB1859 S-adenosylmethionine:tRNA ribosyltransferase-isomerase 1963108
1962071
NMB1860 acetyl-CoA carboxylase, biotin carboxyl carrier protein 1963464
1963916
NMB1861 acetyl-CoA carboxylase, biotin carboxylase 1964031 1965389
NMB1862 ribosomal protein L11 methyltransferase 1965653 1966537
NMB1863 oligoribonuclease 1966558 1967118
NMB1864 glutamate-1-semialdehyde 2,1-aminomutase 1968808 1967528
NMB1865 hypothetical protein 1968821 1969036
NMB1866 conserved hypothetical protein 1969593 1970918
NMB1867 1-deoxyxylulose-5-phosphate synthase 1972919 1971009
NMB1868 integrase/recombinase XerC 1973909 1973007
NMB1869 fructose-bisphosphate aldolase 1974093 1975154
NMB1870 hypothetical protein 1975177 1976136
NMB1871 conserved hypothetical protein 1976286 1976960
NMB1872 ribosomal-protein-alanine acetyltransferase, putative 1976960
1977397
NMB1873 DNA polymerase, bacteriophage-type, putative 1977394 1978128
NMB1874 orotate phosphoribosyltransferase 1978193 1978831
NMB1875 hypothetical protein 1978908 1979339
NMB1876 N-acetylglutamate synthase 1979339 1980646
NMB1877 prolyl oligopeptidase family protein 1980850 1982862
NMB1878 transcriptional regulator, AraC family 1983567 1982983
NMB1879 hypothetical protein 1983936 1983628
NMB1880 ABC transporter, periplasmic solute-binding protein, putative
1984172 1985134
NMB1881 conserved hypothetical protein 1985694 1986014
NMB1882 TonB-dependent receptor 1986131 1988305
NMB1883 hypothetical protein 1988727 1988440
NMB1884 conserved hypothetical protein 1989047 1988727
NMB1885 protein-L-isoaspartate O-methyltransferase 1989783 1989130
NMB1886 conserved hypothetical protein 1990389 1989889
NMB1887 triosephosphate isomerase 1990568 1991338
NMB1888 protein-export membrane protein SecE 1991348 1991695
NMB1889 hypothetical protein 1992486 1992575
NMB1890 conserved hypothetical protein 1992709 1993074
NMB1891 helix-turn-helix family protein 1993074 1993382
NMB1892 hypothetical protein 1993495 1993704
NMB1893 conserved hypothetical protein FRAMESHIFT 1994615 1993771
NMB1894 leucyl-tRNA synthetase, truncation 1994851 1994723
NMB1895 DNA adenine methylase, truncation 1994987 1994847
NMB1896 type II restriction enzyme DpnI 1995774 1994974
NMB1897 leucyl-tRNA synthetase 1998538 1995911
NMB1898 lipoprotein 1998808 1999320
NMB1899 hypothetical protein 1999330 1999770
NMB1900 polyphosphate kinase 1999849 2001996
NMB1901 IS1016C2 transposase, degenerate 2002232 2002770
NMB1902 DNA polymerase III, beta subunit 2004113 2003013
NMB1903 chromosomal replication initiator protein DnaA 2005904 2004351
NMB1904 ribosomal protein L34 2006196 2006327
NMB1905 ribonuclease P protein component 2006333 2006695
NMB1906 conserved hypothetical protein 2006763 2006981
NMB1907 60 kd inner-membrane protein 2007156 2008790
NMB1908 conserved hypothetical protein 2009599 2008877
NMB1909 Maf/YceF/YhdE family protein 2010236 2009649
NMB1910 conserved hypothetical protein 2010384 2010884
NMB1911 50S ribosomal protein L32 2010921 2011097
NMB1912 conserved hypothetical protein 2011275 2011799
NMB1913 fatty acid/phospholipid synthesis protein 2011891 2012943
NMB1914 hypothetical protein 2013082 2013330
NMB1915 hypothetical protein 2013360 2013746
NMB1916 3-oxoacyl-(acyl-carrier-protein) synthase III 2013931 2014890
NMB1917 conserved hypothetical protein 2014940 2015344

Appendix B

-32-

NMB1918 malonyl CoA-acyl carrier protein transacylase 2015441 2016364
NMB1919 ABC transporter, ATP-binding protein 2016505 2018367
NMB1920 GMP synthase 2018470 2020032
NMB1921 3-oxoacyl-(acyl-carrier-protein) reductase 2020097 2020840
NMB1922 IS1106 transposase, degenerate 2021273 2021118
NMB1923 conserved hypothetical protein 2021377 2021757
NMB1924 inositol monophosphatase family protein 2022673 2021981
NMB1925 conserved hypothetical protein 2022876 2023598
NMB1926 lacto-N-neotetraose biosynthesis glycosyl transferase LgtE 2025680
2024841
NMB1927 lacto-N-neotetraose biosynthesis glycosyl transferase-related
protein 2025817 2025725
NMB1928 lacto-N-neotetraose biosynthesis glycosyl transferase LgtB 2026656
2025832
NMB1929 lacto-N-neotetraose biosynthesis glycosyl transferase LgtA 2027747
2026701
NMB1930 glycyl-tRNA synthetase, beta chain 2029827 2027767
NMB1931 hypothetical protein 2030256 2029912
NMB1932 glycyl-tRNA synthetase, alpha chain 2031238 2030336
NMB1933 ATP synthase F1, epsilon subunit 2032065 2031646
NMB1934 ATP synthase F1, beta subunit 2033473 2032079
NMB1935 ATP synthase F1, gamma subunit 2034386 2033514
NMB1936 ATP synthase F1, alpha subunit 2035958 2034414
NMB1937 ATP synthase F1, delta subunit 2036502 2035972
NMB1938 ATP synthase F0, B subunit 2036977 2036510
NMB1939 ATP synthase F0, C subunit 2037284 2037051
NMB1940 ATP synthase F0, A subunit 2038207 2037344
NMB1941 hypothetical protein 2038550 2038200
NMB1942 hypothetical protein 2038997 2038707
NMB1943 hypothetical protein 2039340 2039170
NMB1944 ParB family protein 2040252 2039395
NMB1945 3-octaprenyl-4-hydroxybenzoate carboxy-lyase 2040407 2040976
NMB1946 outer membrane lipoprotein 2041904 2041044
NMB1947 ABC transporter, permease protein 2042749 2042066
NMB1948 ABC transporter, ATP-binding protein 2043488 2042754
NMB1949 soluble lytic murein transglycosylase, putative 2044018 2045865
NMB1950 30S ribosomal protein S21 2046157 2046366
NMB1951 conserved hypothetical protein 2046405 2046944
NMB1952 stringent starvation protein B 2047538 2047149
NMB1953 stringent starvation protein A 2048215 2047613
NMB1954 hypothetical protein 2050146 2048488
NMB1955 cadmium resistance protein 2050933 2050310
NMB1956 50S ribosomal protein L31 2051451 2051239
NMB1957 acetyltransferase-related protein FRAMESHIFT 2051688 2052197
NMB1958 thioredoxin, putative 2052770 2052273
NMB1959 conserved hypothetical protein 2053150 2052770
NMB1960 hypothetical protein 2053632 2053153
NMB1961 VacJ-related protein 2054464 2053640
NMB1962 hypothetical protein 2054739 2054464
NMB1963 conserved hypothetical protein 2055380 2054793
NMB1964 conserved hypothetical protein 2055911 2055420
NMB1965 conserved hypothetical protein 2056738 2055965
NMB1966 ABC transporter, ATP-binding protein 2057586 2056789
NMB1967 transcriptional regulator, AraC family 2057759 2058673
NMB1968 aldehyde dehydrogenase A 2058936 2060375
NMB1969 serotype-1-specific antigen, putative 2061412 2064657
NMB1970 para-aminobenzoate synthetase component I/4-amino-4-
deoxychorismate lyase, putative 2065692 2067470
NMB1971 conserved hypothetical protein 2069049 2067535
NMB1972 chaperonin, 60 kDa 2071379 2069748
NMB1973 chaperonin, 10 kDa 2071762 2071475
NMB1974 IS1016C2 transposase, degenerate 2071990 2072639
NMB1975 sodium- and chloride-dependent transporter 2072855 2074387
NMB1976 diaminopimelate decarboxylase 2075759 2074518

Appendix B

-33-

NMB1977 hypothetical protein 2075940 2075773
NMB1978 cyaY protein 2076011 2076331
NMB1979 conserved hypothetical protein 2076361 2077374
NMB1980 conserved hypothetical protein 2077403 2077819
NMB1981 conserved hypothetical protein 2077844 2078347
NMB1982 DNA polymerase I 2078496 2081309
NMB1983 hypothetical protein 2082658 2083326
NMB1984 IS1106 transposase FRAMESHIFT 2083391 2084499
NMB1985 adhesion and penetration protein 2089191 2084821
NMB1986 hypothetical protein 2089756 2089328
NMB1987 thiophene and furan oxidation protein ThdF 2090041 2091384
NMB1988 iron-regulated outer membrane protein FrpB 2092611 2094752
NMB1989 iron(III) ABC transporter, periplasmic binding protein 2095472
2096434
NMB1990 iron(III) ABC transporter, permease protein 2096601 2097566
NMB1991 iron(III) ABC transporter, permease protein 2097559 2098530
NMB1992 hypothetical protein 2098577 2099200
NMB1993 iron(III) ABC transporter, ATP-binding protein 2099286 2100041
NMB1994 adhesin/invasin, putative 2100342 2101433
NMB1995 nitrogen regulatory protein P-II, FRAMESHIFT 2101839 2101423
NMB1996 phosphoribosylformylglycinamidine synthase 2101990 2105949
NMB1997 hydroxyacylglutathione hydrolase 2106047 2106802
NMB1998 serine-type peptidase 2107119 2111411
NMB1999 magnesium transporter 2111646 2113097
NMB2000 conserved hypothetical protein 2114094 2113189
NMB2001 conserved hypothetical protein 2114339 2115091
NMB2002 hypothetical protein 2115113 2115328
NMB2003 conserved hypothetical protein 2115476 2115820
NMB2004 conserved hypothetical protein 2115820 2116509
NMB2005 glutamate N-acetyltransferase/amino-acid acetyltransferase 2116579
2117796
NMB2006 chloride channel protein-related protein 2117859 2119265
NMB2007 ATP-dependent RNA helicase HrpA, truncation 2119458 2120846
NMB2008 ABC transporter, ATP-binding protein-related protein 2120993
2122633
NMB2009 ATP-dependent RNA helicase HrpA, degenerate 2122680 2122859
NMB2010 YhbX/YhjW/YijP/YjdB family protein 2123074 2124648
NMB2011 ATP-dependent RNA helicase HrpA, truncation 2124717 2128133
NMB2012 transcriptional regulator, HTH 3 family 2129260 2128172
NMB2013 hypothetical protein 2129920 2129279
NMB2014 hypothetical protein 2130249 2130004
NMB2015 hypothetical protein 2130614 2130880
NMB2016 type IV pilin-related protein 2131493 2131047
NMB2017 ComEA-related protein 2132027 2131584
NMB2018 conserved hypothetical protein 2138411 2137752
NMB2019 lipopolysaccharide core biosynthesis protein KdtB 2138949 2138440
NMB2020 conserved hypothetical protein 2139756 2139076
NMB2021 conserved hypothetical protein 2140179 2139916
NMB2022 conserved hypothetical protein 2140722 2140255
NMB2023 conserved hypothetical protein 2141162 2140779
NMB2024 conserved hypothetical protein 2141826 2141224
NMB2025 conserved hypothetical protein 2142422 2141826
NMB2026 ABC transporter, permease protein 2144046 2142454
NMB2027 gluconate permease 2144385 2145767
NMB2028 thermoresistant gluconokinase 2145790 2146305
NMB2029 homoserine kinase FRAMESHIFT 2147564 2146650
NMB2030 3-demethylubiquinone-9 3-methyltransferase 2148329 2147604
NMB2031 tryptophan transporter 2148481 2149719
NMB2032 lipopolysaccharide glycosyl transferase, FRAMESHIFT 2149872
2150922
NMB2033 histidinol-phosphatase, putative 2151173 2151733
NMB2034 1-acyl-sn-glycerol-3-phosphate acyltransferase, putative 2151765
2152505
NMB2035 conserved hypothetical protein 2152505 2153194

Appendix B

-34-

NMB2036 tRNA pseudouridine synthase A 2154495 2155390
NMB2037 hypothetical protein 2155415 2155651
NMB2038 PemK-related protein 2155642 2155962
NMB2039 major outer membrane protein PIB 2157487 2158479
NMB2040 thiamine biosynthesis protein ThiC 2161479 2159581
NMB2041 thiamin pyrophosphokinase-related protein 2162093 2162965
NMB2042 spermidine/putrescine ABC transporter, ATP-binding protein 2162977
2163912
NMB2043 IS1106 transposase, putative POINT MUTATION 2165702 2164734
NMB2044 phosphoenolpyruvate-protein phosphotransferase 2168278 2166506
NMB2045 phosphocarrier protein HPr 2168547 2168281
NMB2046 PTS system, IIAB component 2169074 2168619
NMB2047 hypoxanthine-guanine phosphoribosyltransferase, putative 2169697
2169137
NMB2048 DNA ligase 2170590 2169769
NMB2049 glyoxalase II family protein 2170682 2171311
NMB2050 conserved hypothetical protein 2173305 2171524
NMB2051 ubiquinol--cytochrome c reductase, cytochrome c1 2174444 2173647
NMB2052 ubiquinol--cytochrome c reductase, cytochrome b 2175793 2174447
NMB2053 ubiquinol--cytochrome c reductase, iron-sulfur subunit 2176393
2175815
NMB2054 conserved hypothetical protein 2177265 2176519
NMB2055 transcriptional regulator, LysR family 2177396 2178322
NMB2056 30S ribosomal protein S9 2178972 2178583
NMB2057 50S ribosomal protein L13 2179413 2178985
NMB2058 conserved hypothetical protein 2180081 2179779
NMB2059 hypothetical protein 2180421 2180095
NMB2060 glycerol-3-phosphate dehydrogenase (NAD+) 2181465 2180479
NMB2061 phosphoenolpyruvate carboxylase 2184290 2181591
NMB2062 thiF protein 2184460 2185227
NMB2063 slyX protein, putative 2186018 2185797
NMB2064 conserved hypothetical protein 2187407 2186022
NMB2065 hemK protein FRAMESHIFT 2188764 2187496
NMB2066 tldD protein 2190271 2188832
NMB2067 conserved hypothetical protein 2190661 2191881
NMB2068 D-amino acid oxidase flavoprotein, putative 2191881 2192978
NMB2069 thiamin-phosphate pyrophosphorylase 2193003 2193617
NMB2070 hypothetical protein 2194042 2194233
NMB2071 thiG protein 2194450 2195235
NMB2072 hypothetical protein 2195352 2195492
NMB2073 hypothetical protein 2195580 2195780
NMB2074 hypothetical protein 2196867 2196004
NMB2075 BirA protein/Bvg accessory factor 2198657 2196882
NMB2076 aut protein 2199160 2198657
NMB2077 methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate
cyclohydrolase FRAMESHIFT 2199800 2200650
NMB2078 conserved hypothetical protein 2201296 2200718
NMB2079 aspartate-semialdehyde dehydrogenase 2201472 2202584
NMB2080 hypothetical protein 2203345 2202818
NMB2081 hypothetical protein 2203700 2203359
NMB2082 exodeoxyribonuclease 2204466 2203690
NMB2083 cysteinyl-tRNA synthetase 2205970 2204552
NMB2084 hypothetical protein 2206648 2205985
NMB2085 hypothetical protein 2207707 2206661
NMB2086 GTP-binding protein 2208944 2207793
NMB2087 hypothetical protein 2209792 2209433
NMB2088 conserved hypothetical protein 2210766 2209894
NMB2089 conserved hypothetical protein 2210812 2211156
NMB2090 phosphoheptose isomerase 2211164 2211754
NMB2091 hemolysin, putative 2211821 2212426
NMB2092 hypothetical protein 2212437 2213066
NMB2093 methionine aminopeptidase 2213109 2213885
NMB2094 hypothetical protein 2214043 2214339
NMB2095 adhesin complex protein, putative 2214580 2214951

Appendix B

-35-

NMB2096 malate:quinone oxidoreductase 2216608 2215145
NMB2097 hypothetical protein 2216749 2216663
NMB2098 conserved hypothetical protein 2217735 2217148
NMB2099 conserved hypothetical protein 2218377 2217799
NMB2100 hypothetical protein 2218455 2218685
NMB2101 30S ribosomal protein S2 2218861 2219586
NMB2102 elongation factor TS (EF-TS) 2219718 2220569
NMB2103 uridylate kinase 2220789 2221505
NMB2104 mafA protein FRAMESHIFT 2221692 2222652
NMB2105 mafB protein 2222695 2224143
NMB2106 hypothetical protein 2224143 2224496
NMB2107 MafB-related protein 2224527 2225288
NMB2108 hypothetical protein 2225301 2225504
NMB2109 hypothetical protein 2225639 2225887
NMB2110 hypothetical protein 2225887 2226255
NMB2111 MafB-related protein 2226268 2227110
NMB2112 hypothetical protein 2227306 2227572
NMB2113 hypothetical protein 2227598 2227897
NMB2114 MafB-related protein 2227948 2228583
NMB2115 hypothetical protein 2228589 2228930
NMB2116 hypothetical protein 2228971 2229312
NMB2117 MafB-related protein, degenerate 2229645 2230340
NMB2118 hypothetical protein 2230340 2230654
NMB2119 MafB-related protein 2230709 2231464
NMB2120 hypothetical protein 2231471 2231869
NMB2121 hypothetical protein 2232031 2232372
NMB2122 MafB-related protein 2232409 2232510
NMB2123 hypothetical protein 2232518 2232871
NMB2124 hypothetical protein 2232922 2233047
NMB2125 hypothetical protein 2233047 2233418
NMB2126 IS1016 family transposase, putative FRAMESHIFT 2234296 2233462
NMB2127 protease, putative 2235364 2234381
NMB2128 CinA-related protein 2236204 2235407
NMB2129 argininosuccinate synthase 2236517 2237857
NMB2130 hypothetical protein 2237908 2238147
NMB2131 hypothetical protein 2238143 2238355
NMB2132 transferrin-binding protein-related protein 2239900 2238437
NMB2133 sodium/dicarboxylate symporter family protein 2241384 2240158
NMB2134 conserved hypothetical protein 2241857 2243761
NMB2135 conserved hypothetical protein 2243771 2247985
NMB2136 peptide transporter 2249471 2250925
NMB2137 hypothetical protein 2251451 2251660
NMB2138 peptide chain release factor 2 2252924 2251824
NMB2139 conserved hypothetical protein 2253920 2253030
NMB2140 conserved hypothetical protein 2254265 2254711
NMB2141 hypothetical protein 2254787 2255092
NMB2142 conserved hypothetical protein 2255187 2256050
NMB2143 conserved hypothetical protein 2256043 2256786
NMB2144 sigma factor, putative 2256811 2257395
NMB2145 hypothetical protein 2257404 2257580
NMB2146 hypothetical protein 2257703 2257810
NMB2147 hypothetical protein 2257842 2258261
NMB2148 transposase, IS30 family 2258738 2259700
NMB2149 hypothetical protein 2260052 2259795
NMB2150 conserved hypothetical protein 2261006 2260440
NMB2151 phosphoribosylamine--glycine ligase 2262344 2261076
NMB2152 hypothetical protein 2262502 2262816
NMB2153 conserved hypothetical protein 2263482 2262874
NMB2154 electron transfer flavoprotein, alpha subunit 2264480 2263548
NMB2155 electron transfer flavoprotein, beta subunit 2265240 2264494
NMB2156 heptosyltransferase I 2266435 2265470
NMB2157 pyrazinamidase/nicotinamidase PncA, putative 2267107 2266475
NMB2158 conserved hypothetical protein 2267221 2267898
NMB2159 glyceraldehyde 3-phosphate dehydrogenase 2269163 2268162

Appendix B

-36-

NMB2160 DNA mismatch repair protein Muts 2269607 2272198
NMB0505 hypothetical protein 533467 533186
NMB1123 hypothetical protein 1135584 1135390
NMB1124 hypothetical protein 1136271 1135627
NMB1125 hypothetical protein 1136639 1136271
NMB1126 hypothetical protein 1137317 1136649
NMB1127 oxidoreductase, short chain dehydrogenase/reductase family 1138201
1137485
NMB1129 hypothetical protein 1139833 1139630
NMB1130 phytoene synthase, putative 1140867 1139998
NMB1133 conserved hypothetical protein / ankyrin-related protein 1144428
1143670
NMB1134 ferredoxin, 2Fe-2S type 1144824 1144486
NMB1135 hypothetical protein 1145242 1145102
NMB1137 conserved hypothetical protein 1146211 1146017
NMB1138 conserved hypothetical protein 1146683 1146285
NMB1141 RNA methyltransferase, TrmH family 1150088 1149480
NMB1142 hypothetical protein 1150375 1150142
NMB1143 hypothetical protein 1150909 1150547
NMB1144 hypothetical protein 1151226 1150924, lipoprotein
NMB1147 hypothetical protein 1154639 1154007, homology to plasmid proteins
Y4SH RISHN and PXO2 BACAN
NMB1149 hypothetical protein 1155016 1154876
NMB1151 sulfite reductase hemoprotein, beta-component 1159086 1157320
NMB1152 sulfite reductase (NADPH) flavoprotein, alpha component 1160927
1159116
NMB1154 sulfate adenylyltransferase, subunit 2 1163172 1162252
NMB1156 siroheme synthase 1165412 1163964
NMB1157 hypothetical protein 1165696 1165541
NMB1159 conserved hypothetical protein 1167316 1166429, inner membrane
NMB1160 conserved hypothetical protein 1167316 1166429
NMB1166 conserved hypothetical protein 1171633 1170323
NMB1169 chaperone protein HscA 1174933 1173074
NMB1170 hypothetical protein 1175666 1175013
NMB1174 hypothetical protein 1178053 1177373
NMB1177 acetyl-CoA carboxylase, carboxyl transferase alpha subunit 1179887
1178931
NMB1178 mesJ protein FRAMESHIFT 1181265 1179984
NMB1183 UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-
diaminopimelate ligase 1184700 1183327
NMB1184 biotin synthetase 1185959 1184910
NMB1186 hypothetical protein 1186881 1186729
NMB1188 dihydroxy-acid dehydratase 1189180 1187324
NMB1191 sulfate adenylyltransferase, subunit 1 1194246 1192963
NMB1193 phosphoadenosine phosphosulfate reductase 1195986 1195249
NMB1196 nickel-dependent hydrogenase, b-type cytochrome subunit 1198401
1197748

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/05928

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68 C12N15/11 C07K14/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, MEDLINE, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 17805 A (RAYMOND NIGEL ;QUINN FREDERICK D (US); US HEALTH (US); RIBOT EFRAI) 30 April 1998 (1998-04-30) the whole document ---	1-4, 7-14, 18-24
X	EP 0 467 714 A (MERCK & CO INC) 22 January 1992 (1992-01-22) claims; example 3 --- -/--	1-4, 7-14, 18-24

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

10 October 2000

Date of mailing of the international search report

19.10.00

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Luzzatto, E

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/05928

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FLEISCHMANN R D ET AL: "WHOLE-GENOME RANDOM SEQUENCING AND ASSEMBLY OF HAEMOPHILUS INFLUENZAE RD" SCIENCE,US,AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, vol. 269, no. 5223, 28 July 1995 (1995-07-28), pages 496-498,507-51, XP000517090 ISSN: 0036-8075 the whole document ----	1-4, 7-14, 16-24
T	TETTELIN H ET AL: "Complete genome sequence of Neisseria meningitidis serogroup B strain MC58 'see comments!.' SCIENCE, (2000 MAR 10) 287 (5459) 1809-15., XP000914963 page 963 ----	
T	PIZZA M ET AL: "Identification of vaccine candidates against serogroup B meningococcus by whole- genome sequencing 'see comments!.' SCIENCE, (2000 MAR 10) 287 (5459) 1816-20., XP000914964 the whole document ----	
T	PARKHILL J ET AL: "Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491 'see comments!.' NATURE, (2000 MAR 30) 404 (6777) 502-6., XP000918875 the whole document -----	

INTERNATIONAL SEARCH REPORT

national application No.
PCT/US 00/05928**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 16, 17 (partly)
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(v) PCT – Presentation of information (insofar as related to computer databases)
2. ☒ Claims Nos.: 5, 6, 15 (completely), 1–4, 7–14, 16–24 (partly)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 5,6,15 (completely), 1-4, 7-14, 16-24 (partly)

1) Claims 5 and 6 (and thus 15 which refers to claim 6 and whose reference to claims 7 and 8 is wrong) lack any essential technical feature which could allow a meaningful search to be carried out. They have thus not been searched. For the same reason claims 18-24 have not been searched insofar as referring to any of claims 5, 6 and 15.

2) Claims 1-4, 7-14, 16-24 have only been searched insofar as related to the full sequence SEQ ID 1 in view of the absence of any indication in the claims as to searcheable SEQ IDs corresponding to the "NMB open reading frames". SEQ ID 1 as such is not searchable by means of similarity algorithms since it is too long: the search with respect thereto has thus been carried out based on keywords.

3) A further reason for not searching claims 1-4 insofar as related to "NMB open reading frames" is that claim 1 is unclear (Art. 6 PCT). It relates to a method for searching open reading frames "within one or more...NMB open reading frames", which is however technically meaningless.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/05928

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9817805 A	30-04-1998	AU 5426098 A	15-05-1998
EP 0467714 A	22-01-1992	AU 8114091 A	23-01-1992
		CA 2047043 A	20-01-1992
		FI 913473 A	20-01-1992
		JP 6056690 A	01-03-1994
		MX 9100272 A	28-02-1992
		NO 912822 A	20-01-1992
		PT 98381 A	29-05-1992
		ZA 9105629 A	25-03-1992
		AU 8113691 A	23-01-1992
		CA 2050635 A	20-01-1992
		FI 913475 A	20-01-1992
		JP 6016569 A	25-01-1994
		JP 6055679 B	27-07-1994
		NO 912823 A	20-01-1992
		NZ 238974 A	23-12-1992
		PT 98382 A	29-05-1992
		ZA 9105627 A	25-03-1992
		AU 8113791 A	23-01-1992
		CA 2047030 A	20-01-1992
		FI 913474 A	20-01-1992
		JP 6041197 A	15-02-1994
		MX 9100274 A	28-02-1992
		NO 912824 A	20-01-1992
		PT 98383 A	30-06-1992
		ZA 9105628 A	25-03-1992